

Java business applications.

"The biggest inhibitor to large-scale applications development today is database connectivity," says Thomas Murphy, product line manager for Objectshare Inc., who notes that the Java Data Base Connectivity (JDBC) specification won't become a standard until later this year. "There...

...But a lack of standards isn't the only problem. Most businesses expect to deploy Java applets by having users download and execute the applets in a Java -capable browser. But developers have found that the most popular Java -capable browser, Netscape's Navigator 2.0, suffers from performance and reliability problems when executing Java applets.

The new JIT Java compilers, which have been developed by several vendors and are built into Navigator, Microsoft's Internet Explorer 3.0, and several Java Integrated Development Environments (IDEs), will speed up the sluggish execution of applets by translating Java byte codes directly into native machine code. Navigator 2.0 and Sun's Java Development Kit use a slower interpreted method of executing Java applets. Performance wasn't the issue at Ichat Inc., but security limitations and developments tools made a difference. Ichat recently released a Java applet version of its chat client, which also comes in Netscape plug-in and Activex control versions. All three clients share nearly identical user interfaces, but the Java version has one significant limitation: While the ActiveX control and plug-in versions let users exchange files with each other while chatting, the Java client can't exchange files because of security limitations imposed by the browser execution environment. Java applets running inside of Navigator or Internet Explorer browsers cannot access the local file system. ...

#### TEXT:

Seven months after Sun Microsystems released the Java Software Development Kit -- and at least one year after Java was proclaimed as one of the hottest technologies of the decade -- there still are no serious Java business applications. What we have instead is a Java industry that is bursting at the seams with developer tools. But there are no reliable places to run applets (the name for applications written in Java that are executed in the Web browser), nor are there enough standards in place to create serious applets for business users.

"The...

...database connectivity," says Thomas Murphy, product line manager for Objectshare Inc., who notes that the Java Data Base Connectivity (JDBC) specification won't become a standard until later this year. "There...

...But a lack of standards isn't the only problem. Most businesses expect to deploy Java applets by having users download and execute the applets in a Java -capable browser. But developers have found that the most popular Java -capable browser, Netscape's Navigator 2.0, suffers from performance and reliability problems when executing Java applets. "Navigator 2.0 works fairly well with little applets that animate things on your...

...that are broken." Cadis, whose customers include Hitachi, National Semiconductor, and Phillips, has implemented a Java client for Krakatoa, its client-server content management and search engine. But Cadis has had problems with its client because of difficulties with the Java Virtual Machine currently implemented in browsers such as Navigator 2.0.

"In Navigator 3.0...

...correct operation of the GUI environment, JIT [just in time] compilers, faster download time, persistent Java applets, and caching that works property," says Pendleton.

Cadis has developed an alternative Web-based front-end using a combination of JavaScript and HTML frames that is faster and more reliable than the Java applet version. For example, downloading a Java applet using Navigator 2.0 takes several minutes over slow (less than 512-Kbps) links...

...because Navigator 2.0 makes a time-consuming connection to the server to download each Java class and then checks to make sure the date and time stamps are correct on the other downloaded classes.

In Navigator 3.0, developers can compress all of the Java classes into a single file to greatly reduce download time for applets. But for now, "the Java front end makes the most sense in an intranet situation where you have a higher...

...Chris Beal, chief technology officer at Cadis. "But we anticipate Netscape and Microsoft will make Java applets download faster."

The new JIT Java compilers, which have been developed by several vendors and are built into Navigator, Microsoft's Internet Explorer 3.0, and several Java Integrated Development Environments (IDEs), will speed up the sluggish execution of applets by translating Java byte codes directly into native machine code. Navigator 2.0 and Sun's Java Development Kit use a slower interpreted method of executing Java applets.

#### Security Limits

Performance wasn't the issue at Ichat Inc., but security limitations and developments tools made a difference. Ichat recently released a Java applet version of its chat client, which also comes in Netscape plug-in and ActiveX control versions. All three clients share nearly identical user interfaces, but the Java version has one significant limitation: While the ActiveX control and plug-in versions let users exchange files with each other while chatting, the Java client can't exchange files because of security limitations imposed by the browser execution environment. Java applets running inside of Navigator or Internet Explorer browsers cannot access the local file system...

...time than expected was required to implement certain features. "It's challenging to develop in Java because the development environment isn't as advanced as, say, Microsoft's Visual C++," says...

...have a component piece that lets you do colored text inside a window. For our Java client, we're going to have to write our own class libraries to do that."

Developer tools is where business is booming for Java these days. There are close to 40 Java IDEs available for Windows, Macintosh, OS/2, and Unix platforms, as well as at least...

...tools and many other specialized tools.  
A list of these tools is available at [http:// www .cybercom.net/ frog/javaide. html](http://www.cybercom.net/frog/javaide.html) .

#### No Programming Needed

Some of the tools require just a bit of programming skill -- or...

...0, no programming skills at all. AppletAce lets users select from a pool of customizable Java applets. The AppletAce walks the user through a series of dialog boxes to select the look and feel of the applet.

At the end, the applet and the HTML code needed to execute it are automatically generated for the user. For example, you can...

...and how often you want the applet to update from the text file.

Parts for Java 1.0 is Objectshare's new Java Visual Programming Environment. It doesn't require a lot of programming knowledge to use, and it's also a great way to learn about the structure and limitations of Java classes. Parts for Java lets you lay out Java GUIs with drag-and-drop ...event handlers automatically.

Creating an easy-to-use development package gave Objectshare some insight into Java problems as well. "The Java tools are capable, but performance is still an issue," says Objectshare's Murphy. "There are...

...class libraries still need performance work." The AWT controls the display of GUI elements in Java .

Murphy says quality Java development tools are only now reaching fruition. The result is that end users will be...

...very long," he says.

#### Applets For Sale

Still, online "storefronts" ready to start selling serious Java applets are already popping up on the Web. Using the Internet as a delivery and...

...downloads and installs at the same time.

Online stores such as the Cafesoft Store ([http:// www .cafesoft.com/store](http://www.cafesoft.com/store)), Cup O' Joe Java Shop ([http:// www .cup ojoe.com/](http://www.cupojoe.com/)), and Gamelan Direct (<http://direct.gamelan.com/>) are open for business. But...  
...tech merchants are sure that will change.

"We're looking at adding 15 to 20 Java -based commercial applications by the end of August, and 75 by the end of the...

...user-productivity applications. "I think it will be a year before we see strong intranet Java applications," she says.

In a marketing experiment, Earthweb is distributing its Java Chat client using a technique it calls transparent distribution. Web sites can host their own chats on Earthweb's chat server ([http:// chat .earthweb.com/](http://chat.earthweb.com/)) by licensing a customized piece of HTML code to put on their Web pages. That code downloads Earthweb's chat client and connects to a private chat for that Web site on Earthweb's chat server. The service is free for now and has more than 8,000 chats running on it, according to Earthweb. After Sept. 30, a subscription to the chat server will cost \$200 per year.

But the growing availability of Java -based products can't disguise the fact that Java development is still in the formative stages. While a year may seem like a long time, it's barely a start in the life of a programming language. Java will really take off once more standards are in place and there's a more stable environment for running Java applets.

That will happen eventually -- it just hasn't yet.--Jason Levitt

#### A Sampling Of Java Products

COMPANY	PRODUCT	AVAILABILITY
Objectshare Systems <a href="http://www.objectshare.com">http:// www .objectshare.com</a>	Parts for Java 1.0	Now
Macromedia <a href="http://www.macromedia.com">http:// www .macromedia.com</a>	AppletAce 1.0	Now
Cadis <a href="http://www.cadis.com">http:// www .cadis.com</a>	Krakatoa	Now
Dun & Bradstreet Software <a href="http://www.dbsoftware.com">http:// www .dbsoftware.com</a>	SmartStream Web Series Requisition	Fourth quarter

• • •

Simple objects, such as browser plug-ins and configuration files, are updated monthly and downloadable free from iband's Web...

...features, such as support for table in Microsoft Corp.'s Internal Explorer 2.0 or Java plug-ins for Netscape 2.0, will be updated every three months.

Iband said it...

...first quarter of 1996, iband will provide Unix versions.

Iband can be reached at [http:// www .iband.com](http://www.iband.com) or 408-374-4086.

...

11/8,K/7 (Item 7 from file: 9)

DIALOG(R)File 9:(c) 2000 Resp. DB Svcs. All rts. reserv.

01351815 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Compuserve To Allow For Other Web Browser Use**

December 05, 1995

WORD COUNT: 391

COMPANY NAMES: COMPUSERVE INC (BLOCK (H & R) INC)

INDUSTRY NAMES: Information industry; Online services

PRODUCT NAMES: On-line service providers (737500)

CONCEPT TERMS: All product and service information; Product introduction

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**Compuserve To Allow For Other Web Browser Use**

TEXT:

...Web. The online service announced its subscribers will soon be able to use any Web browser in connection with its network.

Compuserve said it will be the first online service in the industry that will allow its members to use any Web browser. "Why should it matter what glasses you look through" when it comes to viewing the...

...to limit what you can do on the service by limiting you to a specific browser."

As a part of the new Web abilities, Compuserve is launching an online area called...

...you to. If you want to use Netscape, use Netscape. We don't care. The browser isn't what is important to us, financially. If you're using Compuserve to look...

...future, users will also be able to test the latest Web technologies, including Sun's Java multimedia applets.

Other features of the WebCentral area will include the ability to obtain technical support and get answers to browser questions, chat with members and experts about the Web, enter contests and win prizes, read the latest...

11/8,K/8 (Item 8 from file: 9)

DIALOG(R)File 9:(c) 2000 Resp. DB Svcs. All rts. reserv.

01310903 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**NCSA Mosaic Vies for Browser Lead**

October 16, 1995

WORD COUNT: 386

COMPANY NAMES: NATIONAL CENTER FOR SUPERCOMPUTING APPLICATIONS  
INDUSTRY NAMES: Information industry; Network hardware and software;  
Online services; Software  
PRODUCT NAMES: Networking software packages (737255); On-line service  
providers (737500)  
CONCEPT TERMS: All product and service information; Product introduction  
GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
**NCSA Mosaic Vies for Browser Lead**

TEXT:  
By RICHARD KARPINSKI

The creators of the original freeware Mosaic World Wide Web browser have released a new version last week that offers network managers collaborative tools and several...

...created Mosaic while at NCSA -- for the title of delivering the fastest and best-featured browser on the Web.

The beta version of Netscape Navigator 2.0 also hit the Web last week, featuring integrated support for Sun Microsystems Inc.'s Java technology, in-line multimedia plug-ins and a new layout capability.

Although NCSA 2.0...

...development leader for NCSA Mosaic.

The collaboration features may be the biggest departure from the browser norm. Netscape also has its eye on Web-based collaboration, but won't have / such...

...later this year at the earliest.

NCSA Mosaic 2.0 lets users conduct text-based chat sessions, send and receive files and make joint tours of the Web with other NCSA...  
...Web page unattended.

NCSA Mosaic 2.0 for Windows can be downloaded free from [http:// www.ncsa.uiuc.edu/SDG/Software/WinMosaic](http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic). Companies wanting NCSA source code can acquire it through...

...even market leader Netscape can't match -- at least for now.

Collaboration: Conduct text-based chat sessions, swap files and link up for joint 'tours of the Web' -- all within the browser window

AutoSurf: Set the browser on 'Automatic' and it will download all the links on a particular page or in...

...When it's done, you can browse the links off-line

Hotlist Manager: Instruct the browser to go out on the Web and see if your bookmarked favorite sites have new content. If they do, the browser returns a 'What's new' icon to indicate pages that have changed  
...

11/8,K/9 (Item 9 from file: 9)  
DIALOG(R)File 9:(c) 2000 Resp. DB Svcs. All rts. reserv.

01288364 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Netscape Readies IP App Platform**

September 18, 1995

WORD COUNT: 946

COMPANY NAMES: NETSCAPE COMMUNICATIONS CORP

INDUSTRY NAMES: Network hardware and software; Software

PRODUCT NAMES: Communications software packages, except networking  
(737251); Networking software packages (737255)

CONCEPT TERMS: All product and service information; Product introduction

BRAND NAMES: LiveWire; LiveWire Pro; Netscape Navigator 2.0; Netscape  
Navigator Gold 2.0

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

## ABSTRACT:

...client and LiveWire and LiveWire Pro, Web-development tools based on Sun Microsystems Inc's Java object-oriented programming language. Netscape Navigator 2.0 automatically displays various multimedia formats and supports for viewers and applications for 40 different companies. The browser also has a Unix-based mail client that lets users send electronic mail by using...

...Layer for encryption and digital signatures. Netscape is introducing a new scripting language based on Java that doesn't require programming expertise. Netscape Navigator Gold 2.0 is a new product...

## TEXT:

...need to improve business communications over the Internet.

The leading provider of World Wide Web browser software will begin shipping a new version of its Navigator client, as well as Web-development tools based on Sun Microsystems Inc.'s Java object-oriented programming language, in December.

These will prove to be key assets for developers...

...need to launch a helper application for each new format.

## Unix-based Mail Client

The browser also includes a Unix-based mail client that lets users send electronics mail securely by...

...does support the Simple Mail Transfer Protocol and POP3 standards. Release 2.0 also supports chat and the ability to send and receive files via file transfer protocol. Perhaps even more...

...0, (Mountain View, Calif.)-based Netscape is introducing anew scripting language, which is based on Java but doesn't require programming expertise.

"Netscape Scripting Language is designed to allow power users...

...the client and the server."

Netscape's scripting language is a subset of Sun's Java , and does not let users create new classes of objects. Instead, the browser comes with its own object library.

A separate product, Netscape Navigator Gold 2.0, includes...

...bar that remains in place when moving to the next page.

"Netscape has turned the browser into a universal application-distribution mechanism," said Geoff Baehr, chief network officer at Sun, Mountain View, Calif.

Java technology lets user distribute program functions along with content, since it can include code that...

...or check to see if there is enough disk space to download video. And because, Java is platform independent, developers need to write the programs only once.

Another bonus with Java is that it includes several layers of security, which prevents software that is downloaded to a user machine from infecting the system with a virus. Java applets can include digital signatures, letting corporations restrict usage.

Meanwhile, Netscape also aims to give...

...to different servers and the links will reconnect automatically.

LiveWire includes extensions for forms processing, HTML on the fly and interfacing with legacy applications. "Server extensions allow you to publish HTML pages to a Web server and compile the scripting-language programs so they run anywhere...

...Y.-based electronic publisher.

"My problem has been that not everyone has a Netscape compatible browser, and we're trying to publish a general-interest publication with users coming in from...

...On-Line] and CompuServe," White said.

The Navigator 2.0 evaluation is available at [http:// www .netscape.com](http://www.netscape.com) and will be \$49. The beta version of Navigator Gold 2.0 will...

11/8,K/10 (Item 10 from file: 9)

DIALOG(R)File 9:(c) 2000 Resp. DB Svcs. All rts. reserv.

01203840 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Sun, Others Trot Out Software To Jazz Up Web**

May 29, 1995

WORD COUNT: 786

COMPANY NAMES: DIMENSION X INC; STARWAVE; SUN MICROSYSTEMS INC; TOSHIBA CORP; WORLDS INC

INDUSTRY NAMES: Information industry; Network hardware and software; Online services; Software

PRODUCT NAMES: Development support software packages (737224); Communications software packages, except networking (737251); On-line service providers (737500)

CONCEPT TERMS: All company; All product and service information; Orders; Product development; Product introduction

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**(Sun Microsystems introduced a new development language for the Internet called " Java " and "HotJava", a Web browser )**

ABSTRACT:

Sun Microsystems Inc introduced a new development language called " Java " and "HotJava", a Web browser . The development language is meant to expand Internet use. Commerical service developers will be able to implement CD-ROM-like capabilities in the World Wide Web. The Java language enables HotJava users to develop small, specialized software applications that



allow users to interact...

...Internet server, administrative tools and "netware" capabilities. Toshiba Corp's Advanced Technology Division is using Java in developing a variety of interactive publishing applications. Dimension X is using Java to produce a Web site based on Fox Broadcasting Inc's The Simpsons. Starwave Inc is using Java to develop an interactive version of ESPNnet for its Web pages. Worlds Inc is releasing Worlds Chat which allows people to communicate using 3-D avatars.

...

TEXT:

...CD-ROM-like capabilities in the World Wide Web equipment.

The development language, known as "Java," and an attendant Web browser, known as "HotJava," are part of a sweeping initiative by Sun that also includes the...

...increase demand for its hardware, said Kim Polese, product manager for Sun.

"Companies interested in Java and HotJava are interested in a whole range of products [that] we can supply them," Polese said. "So their use of the software becomes part of a larger relationship."

Java has been quickly offered in Alpha release over the Internet at no cost for about...

...experiment with the ancient calculation tool by moving beads around on-screen, Polese said.

The Java language gives HotJava users the power to develop small, specialized software applications, or "applets," which...

...president of new electronic media technologies at Foote, Cone & Belding, which has begun using the browser in projects with a number of clients. "You have the ability to use audio and..."

...that Netscape Communications is now supporting the new Sun language, said he expects to see Java becoming the standard development language for the Internet very quickly. "We've got a lot..."

...things going at a number of Web sites across North America, and they all use Java," he said.

Other firms jumping into early use of Java include Toshiba Corp.'s Advanced Technology Division, which is developing a variety of interactive publishing...

...Apple MacOS 7.5 ports to follow in the late summer. The beta release of Java and HotJava will be in late summer. Although the core code is available at no...

...pay a low licensing fee for use in their applications, officials noted. The next-generation browser is the beginning of what promises to be a variety of approaches to taking the...

...in 3-D takes place online."

World's first release into the Internet is Worlds Chat, which allows people to communicate with each other using 3-D avatars that the company refers to as "Digital Actors" set in a graphically rich space station.

Worlds Chat is available free for now through Worlds' home page on the Internet. But the capabilities...

...most of the major commercial online services providers in hopes of winning them over to Java , said Polese. "Whatever approach people take, my guess is most, if not all, Web browsers...

11/8,K/11 (Item 1 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04756393 Supplier Number: 54760321 (USE FORMAT 7 FOR FULLTEXT)

**MYRIAD CONFRONTATIONS.**

Dec, 1996

Word Count: 724

PUBLISHER NAME: Miller Freeman, Inc.

EVENT NAMES: \*600 (Market information - general); 010 (Forecasts, trends, outlooks); 480 (Use of services)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372440 (Graphics Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

... advisory board for the Computer Game Developers Conference, a couple of my fellow members dissed Java as a not-ready-for-realtime 3D language and were convinced DVD was nothing but...

...delivering their multi-user environments' media assets both on line (by downloading their Active Worlds browser ) and on disc (the Worlds Chat environment comes on disc while user interaction occurs on line, for details see page 31). Then columnist Marvin Scaff shows you how to build browser access into a CD-ROM (page 70).

And in an experiment of our own, we...

...you folks are probably the most Net-savvy humans on the planet. Check out [http:// www .eyemedia.com/service.htm](http://www.eyemedia.com/service.htm) for details. It's the first section of our Web presence...

11/8,K/12 (Item 2 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04744870 Supplier Number: 46984259 (USE FORMAT 7 FOR FULLTEXT)

**\$40M VENTURES NORTH CAPITAL WAR CHEST WILL BE USED TO FUND RENTABLE JAVA APPLICATIONS**

Dec 19, 1996

Word Count: 258

PUBLISHER NAME: ComputerWire, Inc.

COMPANY NAMES: \*ECG Technologies

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1CANA (Canada)

PRODUCT NAMES: \*7372690 (Communications Software NEC)

INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business, International)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**40M VENTURES NORTH CAPITAL WAR CHEST WILL BE USED TO FUND RENTABLE JAVA APPLICATIONS**

TEXT:

...together and already begun to spend a \$40m war chest to fund the development of Java -based vertical applications that will be rented to investment professionals, insurance agents, accountants and lawyers...

...ECG Technologies Inc, will build the applications using pieces of Corel Corp's Office for Java , perhaps taking a piece of WordPerfect and using it as a chat viewer or using a charting subroutine to display stock prices. The Office-based applications are then to be embedded inside Sanga Corp's Sanga Pages, a pure Java -based workflow framework that Corel has licensed (CI No 3,059). Both Corel and Sanga...

...code Corel is ecstatic since it's the first cash it's received for its Java program. ECG is in talks with IBM Corp, Sun Microsystems Inc and Corel Corp to...

...if they were going to an Network Computer. They could then be run on any Java -enabled browser . The whole venture depends on the Java implementation of Corel Office, which is still limited in functionality and in beta test.

11/8,K/13 (Item 3 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04730238 Supplier Number: 46963248 (USE FORMAT 7 FOR FULLTEXT)  
**OZ Interactive to bring popular cartoon characters to life on the Web with new cartoon engine.**

Dec 11, 1996

Word Count: 458

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*OZ Interactive

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372510 (Software Development Tools)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

... will be able to access cartoon 3D content by downloading OZ Virtual, the leading Internet browser for experiencing virtual reality multi-user communities, from the OZ Web site ([http:// www .oz-inc.com](http://www.oz-inc.com)). With OZ Virtual, users will be able to chat using voice or text in colorful multi-user 3D worlds full of sound, songs, color...

...The OZ family of products includes OZ Virtual, a VRML 2.0 compliant application with Java support, as well as dynamically linked compiled scripts; OZ Server which turns any VRML world...

...with rich graphics, video and 3D sound; Avatar and agent technologies; and voice and text chat .

About OZ Interactive, Inc.

OZ Interactive was established as a high-end animation studio and...

11/8,K/14 (Item 4 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04682870 Supplier Number: 46892847 (USE FORMAT 7 FOR FULLTEXT)  
**Innovative Web Sites: HotWired Unveils Chat Site**

Nov 15, 1996

Word Count: 139

PUBLISHER NAME: Communications Industry Researchers, Inc.

COMPANY NAMES: \*HotWired Network

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811550 (Teleconferencing Services)

INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)

NAICS CODES: 51339 (Other Telecommunications)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**Innovative Web Sites: HotWired Unveils Chat Site**

TEXT:

The HotWired Network has unveiled Talk.com ([http:// www .talk.com](http://www.talk.com)), the next wave in online text-based chat . Based on Sun Microsystems Inc.'s Java technology, Talk.com incorporates all the familiar chat features of popular pay-per-use online services in an Internet site that is free...  
...an enhanced user interface and faster downloading, while eliminating the need to use a Web browser to get into the service. Either way, Talk.com will be supported by rotations of...

11/8,K/15 (Item 5 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04656936 Supplier Number: 46850405 (USE FORMAT 7 FOR FULLTEXT)

**Peter Friedman, Talk City**

Nov 1, 1996

Word Count: 1397

PUBLISHER NAME: Jupiter Communications

COMPANY NAMES: \*LiveWorld Productions Inc.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Friedman's list. The company's first production, Talk City, has some of the hottest chat around for kids on the Internet-and it's just getting hotter with a newly...

Jupiter: Tell us about Talk City.

Peter Friedman: We're a chat service on the Internet. We have over 350 moderated chats a week, plus a bunch...

...education, but it's for parents, teachers, and students, and that is a mixture of chat , newsletters and content discussion boards. We just rolled out a partnership with Ingenius to produce the community and chat and discussion boards on a co-branded basis for the Jamz! site.

Will we see...

...t been announced yet. This is the premiere kids-oriented one, though.

What kind of chat technology are you using?

Peter Friedman: We have some interesting technology in the form of a chat application called EZ Talk, which is a Java irc-compatible client that we developed, that basically makes chatting on the Internet as easy as America Online. There are a lot of chat applications on the Internet, but they're sort of a pain to download and configure. With EZ Talk, as long as you have a Java -enabled browser -which is what most people have-when you come to Talk City, or if you come to Jamz!, you just click on Easy Talk and the Java chat application automatically loads in; you don't have to configure it, you just type in your screen name and, bang, you're in the chat with multiple windows and you can send sounds and all kinds of nice features. We...

...new community-oriented technology. The first one is On Live Talker, you know, a voice chat system. So that's not irc-compatible or anything like that, but it's an...

...they are a media-content deal where we create or take over the

community, the chat , discussion board elements of a partner's site and produce it with them on a...

...kids with a real kids-centric focus, very much in the case of teenagers, being chat hosts and producers and things like that. So it's very much programming by kids...particularly 10 to 15-kids start really socializing.

What's your take on three-dimensional chat ?

Peter Friedman: Now, Talk City is predominately text chat . That's not all it is and that's not all it will be, but that's what it mostly is because right now, text chat today provides the best and most scaleable venue for community. There are a lot of...

...D and avatar-type environment) companies, we're creating a new format which we call Chat Scene, which is community and chat combined with photorealistic VR environments in a proactively designed and programmed way. Actually, this whole...

**11/8,K/16 (Item 6 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04648325 Supplier Number: 46838357 (USE FORMAT 7 FOR FULLTEXT)

**New tutorial for Prodigy Internet debuts at www.prodigy.com.**

Oct 29, 1996

Word Count: 759

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Prodigy Services Co.

EVENT NAMES: \*240 (Marketing procedures)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

**New tutorial for Prodigy Internet debuts at www .prodigy.com.**

... Only True Internet-based Online Service

A new tutorial for Prodigy Internet debuts today at www .prodigy.com explaining all the benefits of Prodigy Inc.'s new flagship product.

Prodigy Internet...

...database feeds are delivered to each member's screen.

Prodigy Internet may be downloaded at www .prodigy.com. The Prodigy Internet default browser will be Microsoft Internet Explorer 3.0. The service is available with Netscape Navigator 3...

...Bar. Prodigy provides access to the tools that highlight all the capabilities of the internet: chat , newsgroups, mail, navigation such as search, go to, hot list, etc. The Prodigy Toolbar can...

...Search, Content Rating (where members rate the Web sites they visit), Related Content, GoTo, Home, Chat , E-mail, Newsgroups, Help, Disconnect and Your Folder. The Prodigy Navigation Bar is a guide...

...vast riches of the internet. Other online services require users to open and close the browser each time they visit a web site on the internet. Prodigy Internet content lives inside the web browser and its content is fully integrated with internet content. This is why the Prodigy Navigation ...

...the latest internet technologies: Internet Explorer 3.0, Netscape 3.0, ActiveX, RealAudio, Quarterback Global Chat , and extensive use of Java and Javascript.

Prodigy Internet is built on current internet standards, including those for e-mail, chat and newsgroups. Prodigy Internet leverages the

integration of mail and newsgroups on the powerful browsers...

11/8,K/17 (Item 7 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04645539 Supplier Number: 46834501 (USE FORMAT 7 FOR FULLTEXT)

**VolanoChat is a simple way to add interactivity**

Oct 28, 1996

Word Count: 335

PUBLISHER NAME: InfoWorld Publishing Company

COMPANY NAMES: \*Volano

EVENT NAMES: \*350 (Product standards, safety, & recalls)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372620 (Network Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Java -based text chat VolanoChat

... latest buzz in interactive Web technology comes from Volano, whose offer to rent dedicated text- chat space on its server seems targeted at small Web sites. The \$120 annual client license...

...pasting a few lines of code into your own Web page. Users only need a Java -capable browser .

When a user selects that link on your site, the VolanoChat window (a Java applet) pops up to provide access to your chat group. The interface is quite basic: there's an edit box, where you type your comments; a chat panel that displays everyone's contributions; and a listing of group participants. There are almost...

...sites that need to handle more than 10 simultaneous users, Volano will sell you its chat server software, also written in Java , at prices ranging from \$400 for 20 simultaneous connections to \$6,000 for 500 connections...

...can connect to it and specify whether users have the ability to create their own chat groups. You can choose what Java applets, JPEG, or GIF files will show up at the top of the chat window and for how long.

Volano's client license could be just the ticket for small businesses that want to install limited chat capability without incurring further expenses on their own servers.

But the server version, despite its...

...NetMeeting, is free.

\* Volano, Mountain View, Calif.; (415) 966-1516; fax: (415) 680-2365; [http:// www .volano.com](http://www.volano.com); subscription: \$120 per year; server software: from \$400 for 20 simultaneous connections.

11/8,K/18 (Item 8 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04639465 Supplier Number: 46825000 (USE FORMAT 7 FOR FULLTEXT)

**The Vertex Opens Virtual Doors as VRML Forum; VRML 2.0 Users Exchange Ideas and Original Models Online.**

Oct 24, 1996

Word Count: 329

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Dimension X Inc.

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
NAICS CODES: 51331 (Wired Telecommunications Carriers)  
SPECIAL FEATURES: COMPANY

The Vertex ([http:// www .thevertex.com](http://www.thevertex.com)) encourages the rapid acceptance of the VRML standard on the Web by developing...

...visionaries can exchange ideas and resources. The Vertex allows users to interact through an online chat service, VRML browser , keyword search engine, and an extensive library of VRML 2.0 utilities.

"The Vertex is...

...2.0 within the forum.

Dimension X, founded March 1995, is the leader in providing Java -based platforms and tools for communicating ideas and concepts over the Internet. Liquid Motion Pro, a 2D Java animation tool, and the VRML 2.0 Liquid Reality Platform, provide a comprehensive solution for...

11/8,K/19 (Item 9 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04597397 Supplier Number: 46758852 (USE FORMAT 7 FOR FULLTEXT)  
Clinton, Dole take off gloves in Cyberspace; Presidential debate broadcasts live for the first time on the Internet; "within seconds of a candidate's statement, a global discussion of that statement can start," says a commentator.

Oct 1, 1996

Word Count: 599

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*ZipLink

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

... with a Web connection anywhere in the country can access this free event at [http:// www .debate96.net](http://www.debate96.net), starting at 9 p.m. on Sunday, October 6.

The simulcast will feature...

...The Hartford Courant will remotely offer their input on the debate via a text-based chat room. An ongoing transcript of the debate will scroll the screen, and live links will...

...platforms. Free software can be retrieved by visiting the Real Audio Web site at [http:// www .realaudio.com](http://www.realaudio.com). To view the online chat and a transcript of the debate, viewers will need a java capable web browser such as recent releases of Netscape Navigator or Microsoft Explorer.

Headquartered in Hartford, Connecticut, ZipLink...

...Web site design. For more information on ZipLink, please visit our web site at [http:// www .ziplink.net](http://www.ziplink.net). -0-

CONTACT: Erika Schutz/Janine Mancinelli  
Mullen PR  
508/468-1155  
eschutz@mullen...

11/8,K/20 (Item 10 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04589260      Supplier Number: 46747200      (USE FORMAT 7 FOR FULLTEXT)  
**Durand Communications Introduces New CommunityWare Services for the Internet; Revolutionary Internet groupware for communities; First to offer sustainable revenue model.**

Sept 30, 1996

Word Count:    1005

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Durand Communications Network I

EVENT NAMES: \*360    (Services information)

GEOGRAPHIC NAMES: \*1USA    (United States)

PRODUCT NAMES: \*4811500    (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS    (Business, General); BUSN    (Any type of business)

NAICS CODES: 51331    (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

...      site presence into their own community context. Community services available to users include: message boards, chat , e-mail directories, who's live, instant messaging, Internet phone, personalized Web pages, links to...

...protocol (LAPI) for creating real-time interaction between people on a web site using any Java or ActiveX enabled web browser . LAPI is designed to give content providers the ability to interact with each other on the Internet in a variety of new ways including live messages, real-time chat , whiteboards and document sharing.

LAPI will be available to third-party developers of CommunityWare services in the fourth quarter 1996 and supports development in Java , ActiveX or Microsoft Foundation Class (MFC).

In support of the new CommunityWare services, Durand has...

...information about Durand CommunityWare can be obtained from Durand's corporate Web site at [http:// www .durand.com](http://www.durand.com). All components of Durand CommunityWare support open standards and Internet tools such as Microsoft's ActiveX technology and Internet Information Server, Sun's Java programming language and Digital's Alpha NT Processor.

Durand CommunityWare requires that all Community members have Internet access and use a Web browser that supports JavaScript and frames such as Netscape Navigator 3.0 or Microsoft Internet Explorer...

...Durand is headquartered at 147 Castilian Drive, Santa Barbara, Calif. 93117; 805/961-8700; [http:// www .durand.com](http://www.durand.com).

CONTACT: Durand Communications, Inc.

Jennifer Slavin, 805/961-8700 ext. 221

[jennifer@durand...](mailto:jennifer@durand...)

**11/8,K/21      (Item 11 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04586205      Supplier Number: 46742564      (USE FORMAT 7 FOR FULLTEXT)  
**CMP and CommunicationsWeek Team Up with Cyber Connection to Coordinate Behind the Scenes Activities of Networked Economy Online**

Sept 26, 1996

Word Count:    775

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*CMP Media

EVENT NAMES: \*220    (Strategy & planning)

GEOGRAPHIC NAMES: \*1USA    (United States)

PRODUCT NAMES: \*7399100    (Trade Show & Conference Management)

INDUSTRY NAMES: BUS    (Business, General); BUSN    (Any type of business)

NAICS CODES: 56192    (Convention and Trade Show Organizers)

SPECIAL FEATURES: COMPANY



## Multi-user Chat Sessions

MANHASSET, N.Y., Sept. 26 /PRNewswire/ -- CMP Media and CommunicationsWeek have announced that they...

...has chosen ichat Inc.'s ROOMS 2.1 software to empower the event's live chat sessions.

"In coordinating an online event of this size, it is important to have the...

...has helped produce and host large-scale Internet broadcast events such as Maximum Exposure (<http://www.maxxp.com>), an on-line AIDS benefit, and 'Live @nd In Concert' (<http://www.inconcert.com>), one of the largest live Internet musical broadcasts to date.

ichat's ROOMS 2.1, a real-time, Web-integrated chat server, is the exclusive chat technology used for all of the Networked Economy Conference's live interactive events. The server software enables real-time chat within a browser window via several PC and Mac client products that can be downloaded free from the company's Web site at <http://www.ichat.com>. This includes software for both Netscape Navigator and Microsoft Internet Explorer, as well as an ichat Java client for UNIX users.

This marks the first time in the Networked Economy Conference's...

...netecon.htm), or call 800-452-4433 (US only) or 805-298-3333.

CommunicationsWeek (<http://www.commweek.com>) is the leading newspaper serving the information needs of Network IS Management. The...

...interactive services, are available on the World Wide Web through CMP's TechWeb(r), <http://www.techweb.com>, the industry's first free daily technology news and interactive services super site, since 1994. CMP Media is also the creator of NetGuide Live (<http://www.netguide.com>), the first comprehensive daily online guide to the Net, and First-TV (<http://www.first-tv.com>), the Internet's first 24-hour TV/video network.

NOTE: All of...

...IN: PUB CPR

SU: PDT

RK

-- NYTH061 --

0786 09/26/96 11:34 EDT <http://www.prnewswire.com>

11/8,K/22 (Item 12 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04570047 Supplier Number: 46717683 (USE FORMAT 7 FOR FULLTEXT)

**MICROSOFT, MINDSPRING ANNOUNCE AGREEMENT.**

Sept 17, 1996

Word Count: 521

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Microsoft Corp.; MindSpring Enterprises

EVENT NAMES: \*480 (Use of services); 610 (Contracts & orders received)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services);

3661000 (Telecommunication Systems)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers); 3342 (

Communications Equipment Manufacturing)

TICKER SYMBOLS: MSFT

SPECIAL FEATURES: LOB; COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Nasdaq/NM:MSPG) announced today that it has licensed Microsoft Internet Explorer as its web browser .

... for the Internet today. With the inclusion of Microsoft Internet Explorer as our standard web browser , we believe we have a package that is both extremely intuitive for our novice users...

...file transfer protocol.

InternetExplorer version 3.0 is based on the ActiveX technology, and supports Java , Javascript, Plug-Ins, HTML , VBScript and ActiveX controls. "What that means to a user," said McQuary, "is access to...

...the richest, most exciting active content on the web." Internet Explorer is also the only browser to support PICS ratings, enabling parents to block out sites they deem objectionable.

Under the...

...a license agreement with Microsoft, MindSpring will ship customized versions of Microsoft's Internet Explorer browser and Internet Mail, Internet News, NetMeeting and Comic Chat software as part of the MindSpring software package. MindSpring will also be listed on Microsoft...

...delivering outstanding service and support to its customers. By following its core values and beliefs ( [www .mindspring.com/aboutms/core.html](http://www.mindspring.com/aboutms/core.html) ), MindSpring aims to do an exceptional job of serving its customers, its employees, its owners...

...United States. To learn more about MindSpring and its services, visit the web site at [www .mindspring.com](http://www.mindspring.com), or call the company at 800-719-4332.

CONTACT: MindSpring Enterprises, Inc., Atlanta...

11/8,K/23 (Item 13 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04568085 Supplier Number: 46714505 (USE FORMAT 7 FOR FULLTEXT)

**iChat 2.0's Web focus ideal for tours, training; Suited for group meetings, not in-depth collaboration**

Sept 16, 1996

Word Count: 1151

PUBLISHER NAME: Ziff-Davis Publishing Company

COMPANY NAMES: \*iChat

EVENT NAMES: \*350 (Product standards, safety, & recalls)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

While they are often used for entertainment, chat packages can also help companies get more mileage out of their training and other efforts...

... are starting to offer more World Wide Web integration via plug-ins to browsers or Java -based clients embedded in browsers, iChat has stronger Web capabilities. It can be used, for example, to provide tours of Web sites, taking questions in chat mode and linking participants' Web browsers to display the same Web page.

Version 2.0...

...addition of file sharing, and increases the flexibility of client support through the use of Java . Future versions will incorporate voice and other multimedia functions, company officials said.

Unfortunately, iChat does not provide the extensive collaboration

tools found in some competing chat packages, such as The Forefront Group's RoundTable, which offers shared workspace to enable a...

...server license to \$8,995 for a 1,000-user server license.

Follow the leader

Chats are divided into different channels, or rooms, and it was possible to "follow" someone from chat room to chat room. We also could follow a leader as he or she surfed the Web. Each...

...the leader moved to a different Web site, the site was displayed on our Web browser. Meanwhile, we could make comments, ask questions and engage in other dialog via the iChat chat window.

The moderation features added in Version 2.0 are mostly oriented to question-and...

...conversations are linked via the iChat ROOM (Real-time Object Oriented Multimedia) Server, which adds chat and participatory Web navigation onto a conventional Web server.

Each chat takes place in a room. As an administrator, it was easy to assign a room...

...plug-ins, we had convenient access to all of the iChat navigational functions. But the chat client took up at least half the screen, forcing us to do a lot of...

...such as a furrowed brow that might indicate confusion are not available to text-based chat. So iChat has built in some text-based stand-ins.

For example, using a semicolon...

...can be reached at [matt.kramer@zd.com](mailto:matt.kramer@zd.com).

Related article: ConferenceRoom opens door to IRC, Java

While iChat provides more extensive World Wide Web navigation features than its competitors, there are many tools that provide chat capabilities through Web browsers.

One new option is WebMaster Inc.'s ConferenceRoom 1.1, which combines a Web server and chat capabilities in a flexible package that can run on either Windows 95 or Windows NT...

...run on Unix systems.

Because ConferenceRoom 1.0 is based on the IRC (Internet Relay Chat) standard, it can either use its own Java chat client, which plugs into Netscape Communications Corp.'s Navigator or Microsoft Corp.'s Internet Explorer, or use a conventional IRC-based chat client.

We installed the ConferenceRoom server on a Windows NT Advanced Server and used the Java client under Internet Explorer 3.0.

WebMaster has stripped out many of the features found in other IRC clients in order to keep the Java applet less than 10K bytes in size. Some functions available in other IRC clients, such as the ability to transfer files, are not available in the ConferenceRoom Java applet.

Like iChat, ConferenceRoom holds chats by assigning topics to a particular room. It also...

...WebMaster, of Santa Clara, Calif., can be reached at (408) 345-1800 or at <http://www.webmaster.com>.

11/8,K/24 (Item 14 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04567408 Supplier Number: 46713614 (USE FORMAT 7 FOR FULLTEXT)

The Internet Connection--oHome

Sept 16, 1996

Word Count: 1991

PUBLISHER NAME: Cahnners Publishing Company

COMPANY NAMES: \*o Home Network

EVENT NAMES: \*360 (Services information)  
 GEOGRAPHIC NAMES: \*1USA (United States)  
 PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)  
 INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); ELEC (Electronics)  
 NAICS CODES: 51331 (Wired Telecommunications Carriers)  
 SPECIAL FEATURES: COMPANY

... receive 24 hours of unlimited access to the Internet, a cable modem, E-mail and " chat " functions, a customized @Home Web browser and a menu of local community content.

So what do you get for \$34.95...

...the story, the user can click directly on the bill via a hyperlink.

The Web browser @Home uses is a custom version of the Netscape Navigator client software from Netscape Communications...have here is a consortium of anti-Microsoft partners, and @Home is willing to push Java . Microsoft is trying to do all the jobs, such as being the Internet access provider and browser developer. You don't need a Microsoft browser or ActiveX to have the best delivery of information to the people. (With @Home), we...

...pipes but cable that provides two-way transmission to provide for outgoing data such as chat sessions, E-mail or personal Web sites over cable.

One of the reasons @Home chose...

11/8,K/25 (Item 15 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04550912 Supplier Number: 46688835 (USE FORMAT 7 FOR FULLTEXT)

**WEB CHAT SOFTWARE VENDOR iCHAT AFTER QUARTERDECK, AMERICA ONLINE WITH NEW CHAT ENGINE**

Sept 6, 1996

Word Count: 617

PUBLISHER NAME: ComputerWire, Inc.

COMPANY NAMES: \*America Online Inc.; iChat; Quarterdeck

EVENT NAMES: \*330 (Product information); 600 (Market information - general)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372620 (Network Software)

INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business, International)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: AOL

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**WEB CHAT SOFTWARE VENDOR iCHAT AFTER QUARTERDECK, AMERICA ONLINE WITH NEW CHAT ENGINE**

TEXT:

Web-enabled chat software house iChat Inc has revealed its August product release plans, casting itself as the standard for Internet chat and plans to steal the limelight from leading chat providers Quarterdeck Corp and America Online Inc. Not exactly a review - we only had a chance to discuss the intentions and abilities of the software - but chat engines are a fundamental of the Internet, not because they are imperative, but because so...

...president Andrew Busey may deserve his own spotlight for taking the concept of Web-integrated chat to venture capitalists and coming back with his pockets bulging after \$750,000 in one...

...2.0 is set for release in August. IChat's client software enables users to chat within a box at the bottom of a Web site without having to launch a separate application. The object-oriented server software, called Rooms, enables real-time chat to be integrated into existing or new Web sites. It is written in a progressive C-based language similar to Java that iChat licensed exclusively from an Amsterdam company and with the 2.0 release will support Java, Mac OS, Windows, Windows NT, Solaris, HP-UX and others, although demand for an AIX...

...for Internet Explorer will be released to coincide with the next version of the Redmond browser.

...the server software, users won't need the plug-ins unless they plan on "heavy chat." But is there a booming market for chat? Busey has heard the question so many times and is exasperated at such basic disbelief...

...Online's revenues coming from subscribers' Web talk and Morgan Stanley & Co projections that the chat market will grow to \$660m by the year 2000. Forrester Research Inc said iChat's...

...figures for multiple tens of thousands of users. Client enhancements will include the ability for chat users to send files to each other through the site and enable users to save chat session text. iChat is eyeing Network Computers and Internet terminals. Busey says he'd like...

...next few months. iChat's biggest marketing coup to date has been buying the word "chat" on Yahoo's search engine, so its advertisement comes up every time someone searches the word "chat." IChat claims "chat" is the third most searched word on Yahoo, preceded by, you guessed it, "sex" and...

11/8,K/26 (Item 16 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04530820 Supplier Number: 46656940 (USE FORMAT 7 FOR FULLTEXT)

**VolanoChat Java Solution Turns Ordinary Web Sites Into Interactive Money Makers.**

August 27, 1996

Word Count: 587

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Volano

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372419 (Business Applications Software NEC); 7372600  
(Computer Network & Communications Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: VolanoChat

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**VolanoChat Java Solution Turns Ordinary Web Sites Into Interactive Money Makers.**

TEXT:

MOUNTAIN VIEW, Calif.--(BUSINESS WIRE)--Aug. 27, 1996--Volano, the leading provider of Java (TM) chat solutions, today announced the immediate availability of VolanoChat(TM), the first Java based chat solution to offer in-room advertising, complete administrative control, and availability in five languages.

VolanoChat works with all Java-compatible browsers, including Microsoft(R) Internet Explorer 3.0 and Netscape Navigator(TM) 3.0. VolanoChat supports banner advertisements in its chat rooms to help sites generate revenue. Banner advertisements are shown at the top of each chat

and it's FREE!

" Chat has always been the top feature of the on-line services but has been held back on the Internet due to difficult software and the absence of quality chat programming," said Peter Friedman, President and CEO of LiveWorld Productions, the studio that produces Talk City. "EZ Talk makes it easy. Talk City provides the quality programming and context. Now chat on the Internet can really take off."

EZ Talk supports a variety of powerful chat features including:

- \* hot linked Web page URLs embedded in user chat text
- \* graphic banners in chat rooms
- \* separate windows for private conferences and multiple rooms
- \* user to user sending of sounds

EZ Talk is available now at no charge at [www.talkcity.com](http://www.talkcity.com). Any browser supporting Java such as Netscape Navigator 3.0 and Microsoft Internet Explorer 3.0 will automatically engage...

...Talk was developed by LiveWorld's engineering team in collaboration with engineers from SportsLine USA ([www.sportsline.com](http://www.sportsline.com)) a leading Internet provider of sports entertainment and information services.

About Talk City and LiveWorld Productions, Inc.

Talk City ([www.talkcity.com](http://www.talkcity.com)), a service from LiveWorld Productions, is an Internet community for those who believe...

...April 96 the service has rapidly grown to over 200 scheduled on-line conferences, or chats, each week, managed by trained conference hosts, supporting the first structured, quality community service of...

...subject they wish. The service runs on Netscape Web servers and Quarterdeck Global Stage IRC Chat servers and is accessible with a standard web browser such as Netscape 3.0 and LiveWorld's EZ Talk Java chat client or any other IRC compatible chat client.

LiveWorld Productions, Inc. ([www.liveworld.com](http://www.liveworld.com)) is an Internet content studio creating and operating high quality original programming for ...

...CONTACT: Peter Friedman of LiveWorld Productions, 408-867-7401, or [FRIEDMAN@LIVEWORLD.COM](mailto:FRIEDMAN@LIVEWORLD.COM), or [http:// WWW.LIVEWORLD.COM/](http://WWW.LIVEWORLD.COM/)

CO: LiveWorld Productions Inc.

ST: California

IN: CPR MLM

SU: PDT

BB-SS

-- LAW027 --

6591 08/21/96 05:00 EDT [http:// www.prnewswire.com](http://www.prnewswire.com)

11/8, K/28 (Item 18 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04507251 ~~Supplier~~ Number: 46620013 (USE FORMAT 7 FOR FULLTEXT)

**WebMaster Releases ConferenceRoom; Integrate Real-Time Chat Into Web Pages with the First IRC Chat Server for Windows NT and 95.**

August 12, 1996

Word Count: 628

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Webmaster (US)

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372620 (Network Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: ConferenceRoom

**SPECIAL FEATURES: COMPANY**

**ADVERTISING CODES:** 55 Company Planning/Goals; 57 New Products/Services;  
66 New Media

(USE FORMAT 7 FOR FULLTEXT)

**WebMaster Releases ConferenceRoom; Integrate Real-Time Chat Into Web Pages with the First IRC Chat Server for Windows NT and 95.**

**TEXT:**

...1996--WebMaster Inc. today announced the availability of ConferenceRoom, the first fully functional Internet Relay Chat (IRC) server for Windows NT and Windows 95. Written specifically to take advantage of the...

...performance of Microsoft Windows, ~~ConferenceRoom allows general computer users to add standards-compliant real-time chat on their web page. It also has greater reliability, performance, and scalability than UNIX chat servers.~~

... through a built-in theme-based web server, ConferenceRoom differentiates itself from other ~~web-based chat systems by allowing the seamless addition of real-time chat to an existing web page.~~ Using a Java-enabled web browser, a first time visitor is no longer required to download a proprietary chat client. The web server interface provides features such as one to one and "party-line" chats, functionality for highly populated events, and the ability to create custom chat web themes in addition to those provided -- features previously only found in the proprietary interfaces...

...our clients."

ConferenceRoom also functions as a universal client. It can be accessed through any Java-enabled browser such as Microsoft's Internet Explorer 3.0 and Netscape Navigator 2.0 and above...

...ConferenceRoom is perfect for support, distance learning applications, virtual meetings, or as a place to chat with friends. It's ease of use offers companies the ability to run cost-effective conferencing, support, and training operations globally.

"With ConferenceRoom, it's now so easy to integrate chat into your web site, there's no reason not to do it," said Mark Owen...

...president of marketing for WebMaster, Inc. "From virtual meetings to distance learning, the range of chat applications has made its implementation a necessity rather an option. The only problem I've...

...web, providing greater ease of use and functionality, including a web server interface with a Java-based client. ConferenceRoom is written to the same specifications as UNIX IRC servers. This ensures...

...products for web site development and administration. Products include solutions for network news, Internet relay chat and Internet commerce.

**CONTACT:** WebMaster, Inc.  
Avi Singh, 408/345-1800  
avi@webmaster.com  
or...

11/8,K/29 (Item 19 from file: 16)  
DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04502957 Supplier Number: 46613474 (USE FORMAT 7 FOR FULLTEXT)  
**Black Sun Interactive Announces Support for VRML 2.0 with CyberHub(TM)**  
**Client for Silicon Graphics Cosmo(TM) Player**  
August 7, 1996  
Word Count: 1035  
PUBLISHER NAME: PR Newswire Association, Inc.  
COMPANY NAMES: \*Black Sun Interactive

window and are rotated according to user defined schedules.

Written entirely in Java, VolanoChat server runs on any platform that supports Java, including Microsoft(R) Windows 95(TM), Microsoft(R) Windows NT(TM), Apple Mac(TM) OS...

...moderation, user-group support, real-time focus group marketing, customer service, and public relations.

Intranet chat rooms can also be established to support corporate initiatives.

VolanoChat is a better way to chat on the Internet. Older chat technologies, such as browser plug-ins, Internet Relay Chat (IRC), and CGI based chat, burden users with special software to download, complicated connection procedures, confusing net splits, painfully slow... one button solution. It has been optimized for novice Web users that just want to chat and do not want to worry about how it all works.

"We did an extensive competitive analysis of all the Java chat applications on the market and chose VolanoChat as the best overall from the standpoint of...

...price," said Chris Arnold, head of Internet Marketing at Motiv Systems, Ltd., creators of the Java UK Experience ([http:// java .motiv.co.uk](http://java.motiv.co.uk)).

"VolanoChat is the fastest and most user-friendly Java chat application that we've seen, and we've seen a lot."

VolanoChat server application is...

...an annual fee of \$120. A live demonstration of VolanoChat can be found at [http:// www .volano.com/ chat](http://www.volano.com/chat).

Volano is located in Mountain View. Founded by John Neffenger in 1996, Volano markets Java solutions for multi-user environments. VolanoChat, the company's flagship product, is a Web-based chat solution written entirely in Java. The company also provides chat services for sites unable to run their own VolanoChat server. -0-

Note to Editors: Volano...

11/8,K/27 (Item 17 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04523485 Supplier Number: 46645837 (USE FORMAT 7 FOR FULLTEXT)

**Talk City(TM) Announces EZ Talk(TM); New Java Applet And Talk City Break Barrier For Ease Of Use Chatting On The Internet**

August 21, 1996

Word Count: 588

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*LiveWorld Productions

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

**Talk City(TM) Announces EZ Talk(TM); New Java Applet And Talk City Break Barrier For Ease Of Use Chatting On The Internet**

SARATOGA, Calif., Aug. 21 /PRNewswire/ -- Talk City(TM), LiveWorld(TM) Production's quality community chat service on the Internet, today announced EZ Talk(TM) a new Java chat client application that finally makes chatting on the Internet easy.

No more chat applications to download, configure and confuse users. No more slow chatting. With EZ Talk, users go to the Talk City Web site ([www .talkcity.com](http://www.talkcity.com)), click on EZ Talk, select a screen name and presto they're in...

...to use, fastest and highest quality community service on the Internet -



EVENT NAMES: \*330 (Product information)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372420 (Database Software)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

... Cosmo Player platform by both Silicon Graphics and Black Sun Interactive.

Cosmo Player is a browser for experiencing VRML 2.0 worlds. The CyberHub Client plugs directly into Cosmo Player and...

...will now be able to enjoy multi-user interaction with 3-D avatars and voice chat without having to download a separate VRML browser.

"Building the CyberHub Client on our CyberSockets Application Programming Interface using the API's Java access layer allowed us to quickly port it from Netscape Navigator's Live3D to Silicon...

...Web users prefer to access multi-user environments from the familiar interface of their VRML browser."

Black Sun Interactive and Silicon Graphics

Black Sun Interactive worked with Silicon Graphics to develop...

...worlds in the top left frame of the Netscape window. User interaction controls and linked HTML pages are displayed alongside with VRML scenes so that application developers have maximum flexibility for...

...import their own in VRML format to represent themselves online. In addition to text-based chat and the exchange of virtual business cards in VRML 1.0 worlds, users running the CyberHub client on a VRML 2.0 browser are now able to converse using their natural voices, play multi-user games, and experience...

...has served millions of hits. CyberHub is an open platform that easily integrates with existing HTML servers to enable the construction of compelling user communities for business, education, and entertainment.

Availability...

...free public download in September 1996 from the Black Sun Interactive Web site at [http:// www .blacksun.com](http://www.blacksun.com). SGI's Cosmo Player is available for free download from the Silicon Graphics...

...Dia Cheney of Black Sun Interactive, 415-273-7004, or [dia@blacksun.com](mailto:dia@blacksun.com), or [http:// www .blacksun.com](http://www.blacksun.com); or Amy Oringel, 415-703-0400, ext. 269, or [amy@ipri.com](mailto:amy@ipri.com), or...MLM CPR

SU: PDT

CW-RB

-- SFW012 --

3115 08/07/96 08:01 EDT [http:// www .prnewswire.com](http://www.prnewswire.com)

11/8,K/30 (Item 20 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04499957 Supplier Number: 46608892 (USE FORMAT 7 FOR FULLTEXT)

~~ichat's 2.0 Release Sets the Standard for Web-Integrated Chat~~

August 5, 1996

Word Count: 823

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*iChat

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**ichat's 2.0 Release Sets the Standard for Web-Integrated Chat**

TEXT:

Company heralds a new era in chat with event moderation, increased client functionality with Java support and a distributed server  
AUSTIN, Texas, Aug. 5 /PR Newswire/ -- ichat, Inc. the leading supplier of Web-based, real-time chat communications software, today announced ROOMS(TM) version 2.0, the second major release of ichat's Web-integrated chat software. ROOMS version 2.0 offers event moderation capabilities, Java support, increased client functionality and distributed server capabilities to existing Web sites. For a demonstration ...

...visit ichat on the World Wide Web Tuesday, Aug. 6, 3:00p.m. (CST) at [www.ichat.com/pressroom](http://www.ichat.com/pressroom).

ROOMS is real-time chat software that, when added to existing Web sites, transforms static content delivery into interactive communication. Requiring only a few lines of HTML to install, ROOMS is the most effective way to attract and keep net surfers interested...

...to offer. People visit a Web site because they are interested in the content, and chat will keep them engaged and bring them back.

"ichat is continually raising the level of chat services to users of the Web and has firmly established itself as the market leader, offering the only fully Web-integrated chat product," said Busey. "This latest version of our ROOMS server is a milestone in the evolution of chat on the Internet. ROOMS version 2.0 offers more capabilities and greater platform support than...

...the speaker's discretion, interact with the speaker in front of the audience. Users may chat freely with each other in other rooms attached to the auditorium while continuing to listen...

...meeting areas, building a great sense of community around a common event or discussion topic.

**Java Support**

With ROOMS version 2.0, ichat expands its client support to Java, offering users a comparable ease-of-use chat application typically found only in the major online services. ichat's Java support also provides a powerful interface for UNIX clients, who have been unsupported by browser plug-ins.

**Increased client functionality**

ichat's 2.0 release also offers enhancements to its browser-integrated client for Netscape 2.x for Windows 95, Netscape 2.0 for Macintosh and...

...0 beta. ichat users now have the ability to share files, add sound to their chats, save their conversations and send private messages to a selected group.

**Scalability**

As chat's popularity skyrockets on the World Wide Web, the need to support tens of thousands...

...of ROOMS version 2.0. ichat's distributed server offers support for a multitude of chat pages or a large single event. Web sites using ROOMS version 2.0 can create a chat network environment which allows a user to seamlessly navigate the site, chat in various areas and participate in events without having to re-enter passwords or log...

...3.0 for Windows 95 and NT

-- ichat also supports all browsers with support for Java, frames, Plug-

ins and Active X controls  
-- ichat provides a stand-alone client for Windows...

...Andrew Busey in 1995, ichat currently employs 30 people. ichat sells Web server software to chat - enable Web and Intranet sites. ichat's client, available for free from the company's Web page at [www.ichat.com](http://www.ichat.com), integrates with popular browsers on PC and Mac platforms to bring together real-time chat and HTML within a single window. Access to ichat ROOMS is also possible through a stand-alone...

...Texas

IN: CPR

SU: PDT

SB

-- NEM034 --

3932 08/05/96 13:05 EDT [http:// www .prnewswire.com](http://www.prnewswire.com)

11/8,K/31 (Item 21 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04496074 Supplier Number: 46603116 (USE FORMAT 7 FOR FULLTEXT)

**OZ announces Soft2vrml available at no charge for users of Softimage; new tool enables 3D artists to create intense VRML environments for OZ VIRTUAL.**

August 5, 1996

Word Count: 522

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*OZ Interactive

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372540 (Desktop Utilities)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: Soft2vrml

SPECIAL FEATURES: COMPANY

... program. Users can download Soft2vrml now for free from the OZ Web site at [http:// www .oz-inc.com](http://www.oz-inc.com).

``Soft2vrml combines with Softimage 3D to enable the world's finest 3D

...

...real-time communications and multi-participant interaction on top of a fast, fully featured VRML browser. Key features include the ability to customize a Persona's physical characteristics and behavior; full support for the VRML 2.0 standard; text-based communications and voice chat; an advanced 3D audio engine that simulates sound in three-dimensional spaces; and full support for Java.

Starting in early August, users will be able to download a beta of OZ VIRTUAL free of charge from the OZ Web site at [http:// www .oz-inc.com](http://www.oz-inc.com). The final shipping version of OZ VIRTUAL will be available this fall...

11/8,K/32 (Item 22 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04494066 Supplier Number: 46600243 (USE FORMAT 7 FOR FULLTEXT)

**WEB-BASED CHAT SERVICE SOFTWARE DEVELOPER iCHAT, UP AGAINST, QUARTERDECK, HAS AUGUST KIT RELEASE**

August 2, 1996

Word Count: 565

PUBLISHER NAME: ComputerWire, Inc.

COMPANY NAMES: \*iChat

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)  
 PRODUCT NAMES: \*7372690 (Communications Software NEC)  
 INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business,  
 International)  
 NAICS CODES: 51121 (Software Publishers)  
 SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**WEB-BASED CHAT SERVICE SOFTWARE DEVELOPER ICHAT, UP AGAINST, QUARTERDECK,  
 HAS AUGUST KIT RELEASE**

TEXT:

Web-enabled chat software house iChat Inc has revealed its August product release plans, casting itself as the standard for Internet chat and plans to steal the limelight from leading chat providers Quarterdeck Corp and America Online Inc. Founder and president Andrew Busey may deserve his own spotlight for taking the concept of Web-integrated chat to venture capitalists and coming back with his pockets bulging after \$750,000 in one ...

...2.0 is set for release in August. IChat's client software enables users to chat within a box at the bottom of a Web site without having to launch a separate application. The object-oriented server software, called Rooms, enables real-time chat to be integrated into existing or new Web sites.

Heavy chat

It is written in a "C-based language similar to Java " that iChat licensed exclusively from an Amsterdam company and with the 2.0 release will support Java , Mac OS, Windows, Windows NT, Solaris, HP-UX and others, although Busey says demand for...

...for Internet Explorer will be released to coincide with the next version of the Redmond browser . Busey says with version 2.0 of the server software, users won't need the plug-ins unless they plan on "heavy chat ." But is there a booming market for, uh, chat ? Busey seems exasperated at such basic - yet crucial - queries - "Yes, it's a huge market...  
 ...Inc's turnover coming from subscribers' Web talk and Morgan Stanley & Co projections that the chat market will grow to \$660m by the Year 2000.  
 Forrester Research Inc said iChat's...

...figures for multiple tens of thousands of users. Client enhancements will include the ability for chat users to send files to each other through the site and enable users to save chat session text. IChat is eyeing Network Computers and Internet terminals. Busey says he'd like...

...few months. IChat says its biggest marketing coup this far has been buying the word " chat " on Yahoo!'s search engine, so that its ad comes up every time someone searches the word " chat ." iChat says " chat " is the third most searched word on Yahoo!, preceded by, you guessed it, "sex" and ...

11/8,K/33 (Item 23 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04460293 Supplier Number: 46547490 (USE FORMAT 7 FOR FULLTEXT)

**FOUR11 UNVEILS SUITE OF FREE SERVICES FOR INTERNET TELEPHONE AND VIDEOPHONE  
 USERS**

July 15, 1996

Word Count: 1073

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*Four11

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51331 (Wired Telecommunications Carriers)  
SPECIAL FEATURES: COMPANY

... Four11 directory is free and can be accessed on the World Wide Web using any browser at [http:// www .Four11.com](http://www.Four11.com).

"Internet telephones are sweeping the online community with increased momentum," stated Michael Santullo...

...can be directly and instantly launched.

Users can participate in ongoing, unmoderated discussion groups in chat rooms dedicated to the Internet telephone or videophone software they own, create new discussion areas for topics of their choice, or turn their text-based chat into an Internet telephone or videophone call with the ease of a mouse click. To...

...simply click the Internet telephone or videophone brand icon that accompanies the names of fellow chat visitors. Four11's chat feature works best with Netscape Navigator 3.0's Java-enabled browser.

"Through Connect, Four11 has broadened the communication capabilities of Internet users and created a technology directory is located on the World Wide Web at [http:// www .Four11.com/](http://www.Four11.com/).

NOTE: All brands, products and service names mentioned are trademarks or registered service...

11/8,K/34 (Item 24 from file: 16)

DIALOG(R) File 16:(c) 2000 The Gale Group. All rts. reserv.

04400399 Supplier Number: 46455193 (USE FORMAT 7 FOR FULLTEXT)

#### TV's Fuzzy Web Sight

June 10, 1996

Word Count: 873

PUBLISHER NAME: Ziff-Davis Publishing Company

COMPANY NAMES: \*Bandai Digital Entertainment; Philips Media Games; Sega of America Inc.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*3651921 (Home Video Games); 3573099 (Computer Systems NEC); 3573120 (Microcomputers)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 339932 (Game, Toy, and Children's Vehicle Manufacturing); 334111 (Electronic Computer Manufacturing)

SPECIAL FEATURES: COMPANY

... such as using data tables for text formatting, can easily crack a made-for-TV browser. Small objects don't display well at all on television. And different aspect ratios mean...

...America's game player--saddled up with a 28.8K-bps modem and a custom browser. Sega will target current Saturn owners by offering a \$199 upgrade. Kerry Bradford, general manager...

...on the TV display, converting Web text and graphics into CD-I formats. A custom browser with "reasonable resolution" is under development, promises John Gray, president of Philips Media. "A lot...

...the three, Bandai Digital Entertainment's Pippin@World player, which uses Apple software, a Netscape browser and a PowerPC chip, comes closest to capturing a true Internet experience. But at E3...

...never reach mass market popularity. Why? Just as the Net is being juiced up with Java, VRML and Shockwave, most of the low-cost boxes won't have enough memory to employ those technologies. Pippin can handle Java plug-ins--if users are willing to pay another \$130 for a memory upgrade. "These...

...entertaining experience."

To add value, most devices will be bundled with E-mail, newsgroup posting, chat rooms and an easy-to-use interface. "If these machines are presented to the consumer...

...too, with Web page designers, says Ken Soohoo, CTO of PlanetWeb, which is providing a browser to Sega. Designers should build alternate versions of their page, one for TV display, another...

11/8,K/35 (Item 25 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04333489 Supplier Number: 46355196 (USE FORMAT 7 FOR FULLTEXT)

#### Web Browsers

May 1, 1996

Word Count: 4023

PUBLISHER NAME: CMP Publications, Inc.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372420 (Database Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

... an integral part of corporate networking, has set the scene for a numbing amount of browser innovations. Over the past two years, improvements on the original HyperText Markup Language (HTML) specification led to more attractive, easy-to-access pages. Similar improvements in the HyperText Transfer...

...compliance. Although there are no internationally sanctioned standards, users and developers have agreed on the HTML 1.0, 2.0 and 3.0 standards. HTML 1.0 compliance is almost a nonentity anymore: If a browser doesn't meet these specifications, it's probably a Gopher browser in disguise. The 2.0 specification added support for improved text and graphics handling, and HTML 3.0, which is still being integrated into new browsers, is a combination of once...

...We used the sample test pages at <http://cavern.uark.edu/wrg> and BrowserCaps (<http://www.objarts.com/bc>) to deduce whether each browser met the necessary requirements. Many browsers still include proprietary enhancements.

VRML, a popular addition to...

...through a major maturity stage shortly. Version 2.01 will be based on Sun's Java and the Moving Worlds Technology developed by Netscape and Silicon Graphics.

Netscape, which makes proprietary enhancements a regular feature in its Navigator releases, has added frames, plug-ins, Java support, JavaScript support, Progressive JPEG, client-side image mapping and text manipulation. Not to be...

...be easily integrated.

Netscape Navigator, v2.0, Netscape Communications Corp.

Netscape put its multifaceted Web browser on 75 percent of Internet users' desktops in 1995, according to statistics from popular commercial...

...than the first.

Netscape 2.01, which was released in the middle of March, addresses Java and JavaScript security concerns. Rogue Java applets can't fool client machines into connecting to random sites, and users' e-mail...

...an upgrade of the earlier-integrated Network News Transfer Protocol (NNTP) standard news reader.

The browser contains a vast number of new features and updates. Java , licensed from Sun Microsystems, is now an integral part of the 32-bit Netscape products...

...to the Internet tools market, it offers, with Internet Explorer, a strong, feature-rich Web browser with extensive support for Windows95, HTML 3.0 and VRML.

Since many users will be upgrading from an earlier version, the...

...were the other products based on the SpyGlass Mosaic engine. It had all of the HTML 2.0 features, most of the proposed HTML 3.0 characteristics and a couple of proprietary innovations. Proxy support is done via a...

...that were noticeably quicker in their manipulation of 3-D files. Future Microsoft modules promise Java support and inline viewing of documents created in Microsoft Office products.

In fact, version 3.0, which Microsoft says will be released early in the third quarter, should have Java , Object Linking and Embedding Custom controls (OCX) architecture (for running Visual Basic and Visual C++ applets in a similar fashion to Java ), HTML 3.0 frames and style sheets, JavaScript and VBScript.

Internet Explorer performance was top-notch, demonstrating its family lineage to SpyGlass Mosaic. The product was originally designed to be the browser of Microsoft Network users, and indeed, it was the quickest product tested over dial-up...

...corporate networks, has recently been upgraded to support Windows95, and now includes a terrific Web browser . NetManage offers WebSurfer as a free component, but users will need to purchase either Chameleon or Chameleon/NFS suite to receive other components, such as FTP.

The browser was impressive, with full HTML 2.0 and 3.0 support, as well as table rendering features that were the...

...bookmark files into its hotlist format (for display and use in a frame within the browser ), but we would have expected a larger number of predefined hotlist sites. We did like...

...Microsoft/Intel AVI video support, but Microsoft and Netscape include similar features. NetManage includes an HTML editor in Chameleon, so not only can users view source files, they can edit them by launching a helper applet from the browser .

The installation CD included both Windows95 and Windows 3.1 versions, and let us selectively...

...times on dial-up and over Ethernet.

We found a couple of idiosyncrasies in the browser . The setup is fragmented between two options within the Settings menu. Furthermore, disabling inline GIFs...

...tips," which a majority of the other browsers had. The lack of integration between the browser , news reading and e-mail was also a sore point.

Emissary Desktop Edition, Version 1...

...has gone into developing its integrated core, and not enough has gone into making its browser the most advanced product. Although it supports many of the features Netscape Navigator and Microsoft Internet Explorer have, it lacks support for Java and LiveObjects.

While Emissary Desktop Edition 1.1 is a 16-bit application, we found

...

...Windows platforms in one executable.

Attachmate has gone to great lengths to integrate the Web browser , FTP, Telnet, UseNet news reading, electronic mail and File Manager components. Emissary uses its Client...

...fully supports OLE 2.0, we could drag and drop text and graphics from the browser to other OLE 2.0-compliant applications. We also used its multiple user configuration to transfer settings between computers during testing.

We were also impressed by Emissary's integrated HTML editor and its one-click upgrade, which allows for updates whenever new components or objects...it completed the page in 30.5 seconds. We were also impressed with its integrated HTML editor (unique in our testing).

Version 2.0, which should be out by the late spring, will have a 32-bit architecture, native Java, VRML and Macromedia ShockWave support (for viewing Macromedia Director animations and slide shows), as well...

...0, Symantec/Delrina Corp.

Delrina, recently taken over by Symantec, has produced a very competitive browser, and included it in a suite with its WinComm and WinFax products. But while Delrina...

...Office. We especially liked the full OLE 2.0 compliance for moving documents from the browser into popular office applications. The Cyberjack Guidebook was well integrated with Windows95, and let us...

...Cyberjack's components are impressive--Archie, Cyberwizard, FTP, Finger, Gopher, Guidebook, Image Manager, Internet Relay Chat (IRC), News Reader, World Wide Web browser and Zip archive Manager. The fault with Cyberjack is similar to Emissary--too little went into the browser.

The 7.02 maintenance release fixed a number of HTML compliance issues, such as tables and high-color graphics viewing, but there is still no...

...to Web sites initially (although it did have a "ping site" option, something that other browser makers have overlooked). The browser lacked any knowledge of other components of the Internet suite (even FTP and Gopher). Images...

...feel to Netscape Navigator, while performing solidly. In fact, PowerBrowser has improved on the Navigator browser theme by combining its clean, feature-rich interface with drag-and-drop bookmarks and a...

...commercial releases promise Visual Basic for Applications support, full integrated e-mail and news reading, Java, an HTML editor with "wizards," VRML and database support.

NCSA Mosaic 2.0, National Center for Supercomputing...

...better online support. Also, the lack of many advanced multimedia features, including frames, plug-ins, Java, advanced news reading and e-mail reception show Mosaic's limitations. NCSA is playing catch...

...number of customization options. Although we were impressed by the sheer number of ways that HTML pages can be changed (font colors for every type of HTML tag, table customization, audio configuration and so on), it can be very confusing to Internet novices and irritating to advanced users who just want to start a browser and start surfing. The proxy support is also a little different from that of other...

...proxy server's address to get it to work.

When we tested Mosaic against our HTML compliance site, it met a majority of the IETF HTML 2.0 and Netscape-extensions, but failed the majority of the W3C HTML 3.0 features. While it properly performed a client pull (automatic reloading of the current or another HTML document), it didn't support tables. It promised to display images while loading, but we...

...nearly 50 percent.

Enhanced Mosaic, Version 2.1, SpyGlass Corp.



SpyGlass Enhanced Mosaic distributes its browser to organizations that want to include it in their products. Despite sharing a family lineage a Web browser and its helper applications are weak, it was not part of the upper echelon of...

...product's main features only appeared to be on par with Netscape 1.1, its HTML 3.0 compliance was on par with Internet Explorer. SpyGlass has been an innovator of...

...for Progressive JPEGs (similar to interlaced GIF), client-side image mapping, color-highlighted text and HTML 3.0 table support, and inline audio. SpyGlass has also thoroughly utilized context-sensitive right...

...support only lags behind Netscape and NCSA. There was no support for plug-ins or Java.

Enhanced Mosaic also includes multiple levels of authentication: CERN- and HTTP-compatible Basic Authentication, RSA...

...file names or Windows95-style open/save file management boxes.

The Mosaic In A Box browser includes CompuServe Wallet, which is a similar version of the electronic payment system included with...

...but not nearly the number and variety included with Frontier SuperTCP Suite 96.

Mosaic's HTML compliance was on par with SpyGlass Mosaic, but we found a number of odd occurrences...

...product never gave us the impression that it conformed entirely to Windows95 standards. In the browser, the right mouse button should have given us context-sensitive menus but never did. The...

...be easily modified, and can import Mosaic and Netscape bookmarks.

Unlike the other products, SuperTCP Browser doesn't have an input bar for the URL. To open an Internet resource, we...that's necessarily useful in corporate America, where proxy servers lock out access.

Mariner's HTML compliance was also questionable. It didn't support tables or advanced inline features. Color support...

...12.3 seconds when directly connected. It does have a nice feature in resizing the browser window: It temporarily turns off the Web page while the page is resized, and then...

11/8,K/36 (Item 26 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04318619 Supplier Number: 46330202 (USE FORMAT 7 FOR FULLTEXT)

# **Netscape 3.0 beta hits the Web**

April 25, 1996

Word Count: 90

PUBLISHER NAME: Plesman Publications Ltd.

COMPANY NAMES: \*Netscape Communications

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); INTL (Business, International)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Netscape Communications Corp. has released a new beta version of its Navigator Web browser which will form the basis for a future release. Code-named Atlas, it offers a...

...wide range of formats; video playback support; an Internet phone called CoolTalk as well as Chat software; Java support; new mail and news options including customized viewing controls; and new functions for navigating...

...Frames. The beta can be downloaded from Netscape's Web site now. Netscape is at [www.netscape.com](http://www.netscape.com).

11/8,K/37 (Item 27 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04278650 Supplier Number: 46268762 (USE FORMAT 7 FOR FULLTEXT)

**BBS OUT OF THE GATE: Wildcat 5 features HTML interface, realtime chat -- Mustang, Seeking VARs, Launches Program**

April 1, 1996

Word Count: 281

PUBLISHER NAME: CMP Publications, Inc.

COMPANY NAMES: \*Mustang Software Inc.

EVENT NAMES: \*240 (Marketing procedures)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSTG

SPECIAL FEATURES: COMPANY

**BBS OUT OF THE GATE: Wildcat 5 features HTML interface, realtime chat -- Mustang, Seeking VARs, Launches Program**

... system lets them segregate departments or companies.

Version 5 has a new interface based on HTML and soon will include support for VRML, streaming audio and video, and Java. It allows realtime chat and also includes the Wildcat 5 Navigator, a freely distributable browser.

Add-ons include a \$249 Internet Connectivity Package; wcExchange, which lets Exchange handle all E...

11/8,K/38 (Item 28 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04277293 Supplier Number: 46265816 (USE FORMAT 7 FOR FULLTEXT)

**TITLETATTLE**

April 1, 1996

Word Count: 1113

PUBLISHER NAME: M2 Communications

EVENT NAMES: \*930 (Government regulation); 600 (Market information - general)

GEOGRAPHIC NAMES: \*9SING (Singapore)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); INTL (Business, International)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

... is to offer a 30-day trial of Information Access Technologies Inc's HoloNet Internet WWW hosting service to its customers who have downloaded the free QuickSite 30-day trial package...

...brought against VocalTec in 1995... NOVELL INC has signed an agreement to license Sun Microsystems' Java software for use within the NetWare operating system... NETSCAPE COMMUNICATIONS CORP has taken an equity... ...28% are still undecided... MACROMEDIA is to acquire Iband Inc, a US developer of Internet WWW devtools and products will be integrated into

Macromedia's product lines -- terms are an exchange...

...share... ICHAT INC has introduced the ichat plug-in for Netscape, a product which enable WWW visitors access to real-time, web-integrated chat sessions... APPLE COMPUTER INC, Netscape Communications Corp and Silicon Graphics Inc have aligned to develop...

...with US telco SA Telecommunications Inc whereby it will become the exclusive provider of Internet WWW presence services to SA's 25,000-plus customers... PRODUCTIVITY WORKS, a US software developer, has developed the WebSpeak browser to guide the blind on the Internet by reading the text and an April launch...its GeoWeb product, enabling GeoWeb users to search the Library catalogue directly from an Internet WWW browser ... STRATUS COMPUTER INC has signed an agreement to resell new Internet software from Open Market...

...commerce over the Internet... Demand for information on the SPANISH GENERAL ELECTION caused the Internet WWW site set up by Telefonica de Espana to be jammed even before the official news...

11/8,K/39 (Item 29 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04268568 Supplier Number: 46253062 (USE FORMAT 7 FOR FULLTEXT)  
**WebMaster Announces First IRC Server Software for Windows NT-based Intranets; ConferenceRoom for Windows NT Available at \$249 Per Server; Fully Supports Web and Intranet Applications Through International Standards, Plus Multimedia Functionality, OLE, Java, and Web Browser Support.**

March 27, 1996

Word Count: 684

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Webmaster Inc.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372620 (Network Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: ConferenceRoom; Internet Relay Chat server software

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**...Per Server; Fully Supports Web and Intranet Applications Through International Standards, Plus Multimedia Functionality, OLE, Java, and Web Browser Support.**

TEXT:

...WebMaster, Inc. today announced availability of ConferenceRoom, the first low-cost, high-performance Internet Relay Chat (IRC) server software for Microsoft Windows NT.

... lineof NT-based servers. Another feature allows browsers from Netscape, Microsoft, and others to become Chat clients. The software also provides a unique configuration utility which allows administration of the IRC server from any secure web browser .

Collaborative Computing and Multimedia Support:

ConferenceRoom allows for enterprise-wide collaborative computing through IRC, using...

...any MIME-compliant document to all members of an IRC channel. Supported document types include:

-- HTML (Web) pages -- Adobe Acrobat PDF -- Microsoft Word --

Microsoft Excel -- Microsoft PowerPoint

ConferenceRoom's ease of...

...8.x for UNIX

Supports multimedia clients, including:

-- Voice over IRC -- Video over IRC

Web Browser Compatibility:

Microsoft's Internet Explorer 3.0 and above (when available). Ships with OCX/OLE...

...Explorer to be an IRC Client.

Netscape's Navigator 2.0 and above. Ships with Java client, allowing Navigator to function as an IRC Client with smooth scrolling functionality.

Availability:

ConferenceRoom...

...reduced-function version will be available for trial download from WebMaster's home page ([http:// www .webmaster.com](http://www.webmaster.com)), and will be priced at \$99.

Company Information:

WebMaster Inc. is a technical...

...presence. WebMaster Inc. is the online publisher for Intervista Software Inc.'s WorldView 3D Web Browser and also has strategic marketing relationships with NEC and Scientific-Atlanta for internet server and...

...recognized.

CONTACT: Horizon Public Relations

Jonathan Hirshon, 408/982-2555 or 408/832-6676 (mobile)

[www .horizonpr.com](http://www.horizonpr.com)

TRADE NAMES: ConferenceRoom; Internet Relay Chat server software

**11/8,K/40 (Item 30 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04244985 Supplier Number: 46215179 (USE FORMAT 7 FOR FULLTEXT)

**When Is Netscape Going to Grow Up?**

March 11, 1996

Word Count: 458

PUBLISHER NAME: Ziff-Davis Publishing Company

COMPANY NAMES: \*Netscape Communications

EVENT NAMES: \*220 (Strategy & planning)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7376000 (Computer Leasing)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 53242 (Office Machinery and Equipment Rental and Leasing)

SPECIAL FEATURES: LOB; COMPANY

... environments don't take three days or even three weeks.

Maybe Andreessen's talking about Java -based clocks and board games, chat forums, simple applications that do SQL lookups from a browser , Web page creation, or installation of some prepackaged solution.

Java -enabled versions of popular enterprise software will spur the adoption of Internet-enabled solutions and...

...of installing and supporting applications, but developing applications will still require time, talent, and money. Java looks promising compared with standard C++, but for now the tools and speed are still...

**11/8,K/41 (Item 31 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04240494 Supplier Number: 46208420 (USE FORMAT 7 FOR FULLTEXT)

**ICHAT OFFERS NETSCAPE PLUG-IN FOR TRULY INTERACTIVE WEB INTEGRATED CHAT**

**SESSIONS**

March 7, 1996

Word Count: 721

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*iChat

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372620 (Network Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**ICHAT OFFERS NETSCAPE PLUG-IN FOR TRULY INTERACTIVE WEB INTEGRATED CHAT SESSIONS**

TEXT:

First Vendor to Deliver Real-Time Web Integrated Chat

... first plug-in to enable World Wide Web visitors access to real-time, Web-integrated chat sessions. The Netscape Navigator 2.0 plug-in architecture allows third-party developers to embed their applications directly into Netscape, enabling seamless access from within a Web page. Chat systems allow Internet users to interact directly with one another.

Generally, the Web is a static medium permitting the one-way transfer of data, but with better integration of chat on the Web, its status is about to change. Chat is valuable because it brings people together electronically in a way that makes it easy to communicate with one another. Unlike other forms of chat, Web-integrated chat enhances a company's Web presence by delivering to visitors the opportunity to interact with others in real-time, without having to launch a separate application to enter chat rooms. The addition of Web-integrated chat enables the Web site to develop a sense of community among its visitors who already...

...a common interest in the content of the site.

The iChat Plug-in seamlessly integrates chat with Web pages, delivering visitors the best of both worlds -- the ability to view Web...

...with others viewing the same Web page. Once installed on the Netscape Navigator 2.0 Browser, the iChat plug-in will automatically launch when visitors connect to a Web site that...

...The iChat Plug-in also allows users to click on hyperlinks to the Internet Relay Chat (IRC), the most popular form of chat currently available on the Internet. The iChat Plug-in is the first Web-based system...

...provides a powerful solution for information delivery, including the integration of graphics, text, forms and Java," said Andrew Busey, president of iChat. "At iChat, we are introducing real-time Web-integrated chat to help transform the evolving architecture of the Web, enabling organizations to turn their Web...

...an existing Web site. The product extends that site's capabilities by adding real-time chat functionality and the concept of virtual space. The iChat Interactive Server can be used to...

...to move through and interact with other objects, as well as view other Web pages.

Chat is a popular element of the major online services. When a chat room is embedded into a Web site it is fully integrated with a Web server, enabling visitors to build chat rooms with hyperlinks to their home pages or to create Web pages that are tied to specific pieces of the chat room. The iChat Interactive Server, in conjunction with iChat's Plug-In for Netscape, makes it possible to run a real-time chat system and to integrate that chat system with a Web site. Visitors can download the

ichat Plug-in for Netscape on...

...privately held company whose mission is to provide a user-friendly channel for accessing Internet chat resources and provide tools for creating robust and professional chat servers that can be integrated with the World Wide Web. For more information on the company and its products, visit the ichat Web site at [http:// www .ichat.com](http://www.ichat.com).

NOTE: ichat and the ichat logo are trademarks of ichat, Inc. All other ...

**11/8,K/42 (Item 32 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04235091 Supplier Number: 46199664 (USE FORMAT 7 FOR FULLTEXT)

**Virtual reality takes next step with Moving Worlds**

March 4, 1996

Word Count: 433

PUBLISHER NAME: Ziff-Davis Publishing Company

COMPANY NAMES: \*Silicon Graphics Inc.

EVENT NAMES: \*350 (Product standards, safety, & recalls)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372510 (Software Development Tools)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: SGI

SPECIAL FEATURES: COMPANY

... over the Internet, sources said.

The new interactivity is based on Sun Microsystems Inc.'s Java and JavaScript programming languages. Third-party plug-in applications written in C can be used...

...World's specification, Netscape started beta testing new Netscape Live3D extensions to its Navigator Web browser. The new extensions enable users to view VRML sites, as well as add 3-D extensions to Java, JavaScript, and Netscape's Plug-In set of APIs.

Netscape's Live3D foundation is based...

...new 3-D VRML platform that will support Moving Worlds and consists of CyberGate, a browser; CyberHub, an interactive chat server; and CyberKit, an authoring package.

With CyberGate now shipping, Franz Buchenberger, president and CEO...

...on Black Sun's Web site. Black Sun is at (415) 263-6836 or [http:// www .blacksun.com](http://www.blacksun.com).

**11/8,K/43 (Item 33 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04198186 Supplier Number: 46138821 (USE FORMAT 7 FOR FULLTEXT)

**Black Sun Interactive offers free VRML browser for real-time 3D multi-user interaction on the Internet; Leading cyberspace technology developer to offer viewer, server and builder product set for Internet and Intranet virtual worlds.**

Feb 12, 1996

Word Count: 981

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Black Sun Interactive

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
 NAICS CODES: 51121 (Software Publishers)  
 SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**Black Sun Interactive offers free VRML browser for real-time 3D multi-user interaction on the Internet; Leading cyberspace technology developer to...**

TEXT:

...an international leader in 3D multi-user interactive technology development, today introduced CyberGate(tm), a browser for 3D information visualization and multi-user interaction on the Internet.

... to view VRML files on the Internet and is available for free download from [http:// www .blacksun.com](http://www.blacksun.com).

CyberHub is server technology that enables site managers to coordinate and support interaction...

...servers on the 'Net. CyberGate users accessing the same CyberHub server can interact using a chat function, that allows them to identify each other, converse and exchange information. CyberHub can support...

...customizable VRML objects which can be assigned behaviors taken from a library of re-usable JAVA scripts, and transmitted across the Internet as radically compressed CyberGenes(tm). The results: dramatically simplified ...

...coordination and support for virtual worlds, is being showcased at Lycos' Point Communications site, [http:// www .pointcom.com](http://www.pointcom.com). CyberGate users can view and interact with other users at PointWorld, a 3D...  
 ...strong infrastructure to create real life communities in the future."

CyberGate Features

- o Standard -- Familiar browser functions include URL text input line, back, forward and reload options toolbar.
- o Personal -- Choose...

...with the mouse cursor. Clicking delves into the information provided on the cards and initiates Chat sessions. Users can exchange text chat through a sidebar frame within the browser window, one-on-one or in discussion groups.

- o Navigation -- Use mouse movement or arrow...

...Black Sun's CyberGene technology, download entire worlds in a matter of seconds like an HTML Web page and get real-time updates of movement.

- o Compatibility -- CyberGate can also be launched by any HTML browser that supports helper applications, when a person encounters a VRML file.

- o Help -- Black Sun...

**11/8,K/44 (Item 34 from file: 16)**

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04170082 Supplier Number: 46090700 (USE FORMAT 7 FOR FULLTEXT)

**SYMANTEC ANNOUNCES RESULTS FOR THE DECEMBER 1995 QUARTER**

Jan 24, 1996

Word Count: 1775

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*Symantec Corp.

EVENT NAMES: \*830 (Sales, profits & dividends)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: SYMC

## SPECIAL FEATURES: LOB; COMPANY

... the full power of the Internet, by providing full-featured client applications including a Web browser, USENet News reader, FTP (File Transfer Protocol) file transfer, Internet chatting sessions (IRC - Internet Relay Chat), e-mail via Microsoft Exchange (the built-in e-mail client software in Windows 95...

...Image and Zip managers with built-in Norton AntiVirus.

## Development Tools

The company licensed the Java Internet programming language technology from Sun Microsystems and released the first Java development environment for Windows 95 and NT, code named "Cafe". Cafe is Symantec's fully integrated development environment which seamlessly integrates Sun's Java Development Kit (JDK) for the creation of Java applets for Internet web pages. Cafe provides Java developers with class and project management capabilities within a graphical development environment. Developers who have licensed Symantec C++ can download Cafe from Symantec's web site at [www.symantec.com](http://www.symantec.com).

Java, developed by Sun, is an object-oriented programming language that operates independent of any particular operating system or microprocessor. Java programs -- called applets -- can be transmitted over a network and run on any client, providing the multimedia richness of a CD-ROM over corporate networks and the Internet. Java has been widely hailed by programmers because it eliminates the need to port applications, and...

11/8,K/45 (Item 35 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04133686 Supplier Number: 46032114 (USE FORMAT 7 FOR FULLTEXT)

## NEWS DIGEST: Web

Jan 1, 1996

Word Count: 254

PUBLISHER NAME: Jupiter Communications

COMPANY NAMES: \*CyberCash; Microsoft Corp.

EVENT NAMES: \*120 (Organizational history); 430 (Capital expenditures); 360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services); 7372600 (Computer Network & Communications Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51331 (Wired Telecommunications Carriers); 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

## TEXT:

...Vermeer chief executive Charles Ferguson and his staff of 40 will move to Redmond . . . Shipped: Java 1.0 by JavaSoft (Java's newly monikered division, headed by ex-Delphi/News Corp. exec Alan Baratz). The software is available for free download at [java.sun.com](http://java.sun.com) . . . The nfl, Microsoft, and nbc Sports brought the game online, featuring real-time game stats, chat, and the online Super Bowl shop at [superbowl.com](http://superbowl.com). nbc's Brobdignagian 46.1 average...

...blitz by giving away 80,000 cd-roms containing the Internet Explorer 2.0 Web browser to Super Bowl attendees. The site's \$150,000 maximum ad price was a bargain...

...the \$1.2 million price tag for a 30-second spot on nbc. Curiously, the chat engine used was Time Warner's The Palace, not Microsoft's V- chat.



11/8,K/46 (Item 36 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04112029 Supplier Number: 45997930 (USE FORMAT 7 FOR FULLTEXT)

**Web Sites Get Interactive; Start-up readies software development tool for building customer-service sites**

Dec 11, 1995

Word Count: 489

PUBLISHER NAME: CMP Media, Inc.

COMPANY NAMES: \*iband

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372510 (Software Development Tools)

INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

... editor for creating and editing Web pages on the fly.

Backstage will work with any browser on the market and will scale to take advantage of the latest features of browsers, such as chat and real-time interactivity available in HTML 3.0, according to the company.

Company co-founder and CEO Anthony Wood said the...

...the library of pre-existing objects for moderated or unmoderated groups.

Simple objects, such as browser plug-ins and configuration files, are updated monthly and downloadable free from iband's Web...

...features, such as support for tables in Microsoft Corp.'s Internet Explorer 2.0 or Java plug-ins for Netscape 2.0, will be updated every three months.

Iband said it...

...first quarter of 1996, iband will provide Unix versions.

Iband can be reached at [http:// www . iband.com](http://www.iband.com) or 408-374-4086.

11/8,K/47 (Item 37 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

04106693 Supplier Number: 45988807 (USE FORMAT 7 FOR FULLTEXT)

**Compuserve To Allow For Other Web Browser Use 12/05/95**

Dec 5, 1995

Word Count: 394

PUBLISHER NAME: Newsbytes News Network

COMPANY NAMES: \*CompuServe Inc.

EVENT NAMES: \*360 (Services information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811500 (Specialized Telecommunication Services)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)

NAICS CODES: 51331 (Wired Telecommunications Carriers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**Compuserve To Allow For Other Web Browser Use 12/05/95**

TEXT:

...Web. The online service announced its subscribers will soon be able to use any Web browser in connection with its network.

... first online service in the industry that will allow its members to use any Web browser . "Why should it matter what glasses you look through" when it comes to viewing the...

...to limit what you can do on the service by limiting you to a specific browser ."

As a part of the new Web abilities, Compuserve is launching an online area called...

...you to. If you want to use Netscape, use Netscape. We don't care. The browser isn't what is important to us, financially. If you're using Compuserve to look...

...future, users will also be able to test the latest Web technologies, including Sun's Java multimedia applets.

Other features of the WebCentral area will include the ability to obtain technical support and get answers to browser questions, chat with members and experts about the Web, enter contests and win prizes, read the latest...

11/8,K/48 (Item 38 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

03934169 Supplier Number: 45688943 (USE FORMAT 7 FOR FULLTEXT)

**NETSCAPE MAKES RADICAL DEPARTURE FROM HYPERTEXT MARK-UP LANGUAGE IN NEW VERSION OF NAVIGATOR**

July 25, 1995

Word Count: 388

PUBLISHER NAME: ComputerWire, Inc.

COMPANY NAMES: \*Netscape Communications

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372420 (Database Software)

INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business, International)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

Netscape Communications Corp's plans for version 2 of its Navigator Web browser mark the most radical departure from standard Hypertext Mark-up Language seen so far, according...

...source. The application programming interface makes it more like an operating system than a Web browser . Each window will be able to display graphics or text and may be made scrollable. Other new features that will be in the browser include fully integrated electronic mail and Internet relay chat . The sources said that the new interface is the basis for the company's work on integrating Macromedia Inc's Director player and Adobe Systems Inc Acrobat reader into the browser . Macromedia said its software will enable QuickTime movies, for example, run within Netscape documents as...

...within the next couple of months. However, the promised implementation of Sun Microsystems Inc's Java language will have to wait for later. Although the company is working to have it...

...to implement the language interpreter by then across all its systems. The impending addition of Java compatibility does mean it is likely that the burgeoning complexity of Netscape Navigator will reach its peak with the version 2.0 release, since Java will tend to make support for additional data types within the browser itself redundant. Instead of having to hard-code new features explicitly into the client, the emphasis will move towards content providers placing Java 'applets' within their documents. Netscape was unavailable for comment.

11/8,K/49 (Item 39 from file: 16)

DIALOG(R)File 16:(c) 2000 The Gale Group. All rts. reserv.

03878141 Supplier Number: 45573676 (USE FORMAT 7 FOR FULLTEXT)

3-D Web From Sun, Worlds Inc. & SGI

June, 1995

Word Count: 568

PUBLISHER NAME: Jupiter Communications

COMPANY NAMES: \*HotJava From the Sun; Worlds

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*3573299 (Miscellaneous Computer Peripherals NEC)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 334119 (Other Computer Peripheral Equipment Manufacturing)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

The Web browser is becoming more than just a browser . Three companies are working to develop multi-media extensions that allow for live communications and...

HotJava From the Sun From Sun Microsystems, comes HotJava, a browser that recognizes "Applets," special interactive application protocols that are written in the Java computer language. Because the Java language is written in "machine independent bytecodes," according to Sun Microsystems' Web page, Java can be migrated seamlessly onto Web.

With the development of the HotJava browser and the Java language, Sun Microsystems is looking to establish itself as a main developer of animated Web-centric applications that can enhance advertising and communications offerings such as chat . Specifically, the HotJava browser will enable content developers to feature an advertising "tickertape" along edges of the Web page. It has been reported that Netscape will begin integrating HotJava technology into its browser sometime over the next several months.

The technology is available in alpha format for free download from the Web address ( www . java .sun.com).

Worlds Inc. Gets Competition The early entrant in the development of 3-D...

...debut its new product, Alpha World, in June.

Alpha World is an extension of Worlds Chat that debuted in April 1995.

Alpha World operates on a TCP/IP set of client/server commands and is available at www .kbworlds.com. For consumers with a 486 or higher PC, and at least 8 MB...

...encouraged to develop their own avatars or "digital actors." Currently, Alpha World's predecessor, Worlds Chat , is the only functioning 3-D environment on the Web. Worlds Inc. has gone to great lengths to make its products bandwidth considerate. Currently in open testing mode, Worlds Chat operates adequately at 14.4 kilobits per second.

SGI Beefs Up VRML Finally, the latest...

...rapid pace and over the next several months will begin making limited appearances as a browser add-on viewer called WebSpace.

VRML is based on open standards and can be viewed with the use of any Netscape-compatible browser . It was developed using the Open Inventor object -oriented 3-D toolkit. SGI and Template...

11/8,K/50 (Item 1 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

09092310 SUPPLIER NUMBER: 18846320 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Black Sun adds tools to manage VR worlds. (virtual reality) (Black Sun Interactive Inc introduces CyberHub server software, CyberGate browser and CyberSockets API) (Product Announcement)**

Nov 4, 1996

WORD COUNT: 1409 LINE COUNT: 00115

SPECIAL FEATURES: illustration; photograph  
COMPANY NAMES: Black Sun Interactive Inc.--Product introduction  
INDUSTRY CODES/NAMES: ELEC Electronics; ENG Engineering and Manufacturing; BUSN Any type of business  
DESCRIPTORS: World Wide Web--Computer programs; File servers--Computer programs; Computer software industry--Product introduction  
PRODUCT/INDUSTRY NAMES: 7372340 (Graphics Software (ex Micro))  
SIC CODES: 7372 Prepackaged software  
TRADE NAMES: CyberHub (Internet/Web server software)--Product introduction; CyberGate (Web browser)--Product introduction  
FILE SEGMENT: CD File 275

...to manage VR worlds. (virtual reality) (Black Sun Interactive Inc introduces CyberHub server software, CyberGate browser and CyberSockets API) (Product Announcement)

...ABSTRACT: application works with a client plug-in for Netscape Navigator that utilizes CoolTalk for live chatting and Live 3D to render VR scenes. Java and VRML software developers can utilize Black Sun's new CyberGate browser and CyberSockets API to facilitate 3D browsing in their applications. CyberHub employs unique algorithms for managing multiuser interactive environments. The software works in tandem with existing HTML servers, but can be located on a separate server. The 3D environment can include as...

... visitors" to their 3-D worlds in order to trigger appropriate behaviors and to facilitate " chat " and "whiteboards." Users, in turn, need simple VR tools to create their 3-D home...

...and works with a free client plug-in for Netscape's Navigator, utilizing CoolTalk for " chat " and Live 3D for the rendering of VR scenes. Upon signing on, visitors select a 3-D avatar to represent themselves in cyberspace. CyberGate, a multi-user browser , and CyberSockets, an application programmers interface (API), allow Java and VRML developers to incorporate 3-D browsing into custom applications.

Constructing and managing the...

...possible by the virtual-reality modeling language (VRML) requires more infrastructure software than 3-D HTML sites. For one thing, visitors to normal 2-D HTML Web sites do not have avatars that interact with each other. In 3-D virtual...

...visitor is represented by a unique 3-D avatar. Interaction among avatars, such as private " chat ," needs to be arbitrated by sophisticated server algorithms.

"There are actually four parts to a...

...is installed as an additional VRML-only server that works in parallel with any existing HTML server, but not necessarily on the same physical computer system.

With CyberHub 3-D environments...

...information with any scene in the space.

The API answers to calls from C and Java applications. "We want to be totally standardized on VRML, HTML and Java , so that anybody's 3-D creation tool can be used with CyberHub, as long as it only uses VRML, HTML and Java ," said Stuart.

On the user side, ParaGraph International Inc. (Campbell, Calif.) announced that a large ParaGraph's 3-D VR tools are available from its Web

site at: [http:// www .us. paragraph.com](http://www.us.paragraph.com)

People Space permits visitors to adopt a 3-D persona, or avatar...

...used to navigate through a 3-D VR while communicating with other visitors using text " chat " or with handwritten electronic ink.

Links aplenty

Upon signing onto People Space, a core 3...

...Space Builder, ParaGraph offers Internet 3D Space Builder and Internet 3D Font Magic. at [http:// www .paragraph.com](http://www.paragraph.com).

The Virtual Home Space Builder provides a basic set of VRML authoring tools...

...with a textured "ground" and "sky." (If you have a fast connection and a VRML browser such as Navigator, then try ParaGraph's 3-D logo-world at [http://vrml.paragraph...](http://vrml.paragraph.com)

...TRADE NAMES: CyberGate (Web browser )--

11/8,K/51 (Item 2 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

09089680 SUPPLIER NUMBER: 18814064 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**VolanoChat. (Volano offers dedicated text-chat space licenses) (Company Business and Marketing) (Brief Article)**

Oct 28, 1996

WORD COUNT: 353 LINE COUNT: 00030

SPECIAL FEATURES: illustration; other

COMPANY NAMES: Volano--Services

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation; BUSN Any type of business

DESCRIPTORS: Communications services industry--Services

PRODUCT/INDUSTRY NAMES: 4811500 (Specialized Telecom Services)

SIC CODES: 4822 Telegraph & other communications

FILE SEGMENT: CD File 275

**VolanoChat. (Volano offers dedicated text- chat space licenses) (Company Business and Marketing) (Brief Article)**

TEXT:

Java -based text chat VolanoChat

... latest buzz in interactive Web technology comes from Volano, whose offer to rent dedicated text- chat space on its server seems targeted at small Web sites. The \$120 annual client license...

...pasting a few lines of code into your own Web page. Users only need a Java -capable browser .

When a user selects that link on your site, the VolanoChat window (a Java applet) pops up to provide access to your chat group. The interface is quite basic: there's an edit box, where you type your comments; a chat panel that displays everyone's contributions; and a listing of group participants. There are almost...

...sites that need to handle more than 10 simultaneous users, Volano will sell you its chat server software, also written in Java , at prices ranging from \$400 for 20 simultaneous connections to \$6,000 for 500 connections...

...can connect to it and specify whether users have the ability to create their own chat groups. You can choose what Java applets, JPEG, or GIF files will show up at the top of the chat window and for how long.

Volano's client license could be just the ticket for small businesses

that want to install limited chat capability without incurring further expenses on their own servers.

But the server version, despite its...

...NetMeeting, is free.

\* Volano, Mountain View, Calif.; (415) 966-1516; fax: (415) 680-2365;  
http:// www .volano.com; subscription: \$120 per year; server software: from \$400 for 20 simultaneous connections.

11/8,K/52 (Item 3 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

09060475 SUPPLIER NUMBER: 18760439 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Web-related applications power productivity and partnering. (World Wide Web) (includes related article)

Oct, 1996

WORD COUNT: 2557 LINE COUNT: 00204

SPECIAL FEATURES: illustration; photograph; table; chart; diagram  
INDUSTRY CODES/NAMES: ARCH Architecture and Design; CNST Construction and Materials; BUSN Any type of business  
DESCRIPTORS: World Wide Web--Usage; Design services--Information services  
PRODUCT/INDUSTRY NAMES: 8910000 (Engineering & Architectural Svcs); 9912610 (Information Systems)  
SIC CODES: 8710 Engineering & Architectural Services  
FILE SEGMENT: TI File 148

... or "look" for all users. To access information, you need a software viewer called a " browser " that recognizes the Web's language, Hypertext Markup Language ( HTML ). The two most popular Web browsers are Netscape's Navigator and Microsoft's Internet Explorer...

...have become Web-enabled are called "intranets." You must have Web-type files (HTM or HTML ) on your network or workstation in order for a browser to view them. Content can vary from human resource information to outline specification distribution. The...

...zoom-viewed. Layers can also be turned on and off, as well as embedded in HTML documents for hyperlinking.  
For true access to native-format vector documents, you need to add...

...access what information and then allow that person to download the appropriate files through a WWW /FTP hyperlink.

Through Web "form" (technically known as Common Gateway Interface face or CGI-bins...Internet applications. This is a technically advanced method.

You can also run plug-ins like Java "applets," miniature applications for word processing, spreadsheets, etc. These applications can be activated when your Web browser "hits" those files. Java is a young technology that is gaining popularity as a way of breaking free of...

...centric Windows, Macintosh and UNIX environments. Other applets can control audio, video, animation, spell-checkers, chat /conference utilities, intelligent agents, presentation viewers and scores of other useful tools.

A recent development from Microsoft extends the Web beyond HTML in the form of technologies called ActiveX. ActiveX controls are components that can easily be...

...and allow users to view and work with your information within the environment of their browser . Additionally, hyperlinks will let you add navigation capabilities to any document or application.

Another interesting...

...a method that allows users to access information on the Web without launching a Web browser outside of the CADD environment. From within the CADD program, a user will be able...

...their efforts with the most recent information available using the simplest of tools - a Web browser - without learning special terminology or software applications," says Primavera president Joel Koppelman. Web-related developments...

...recently developed a Web-enabled construction document in the form of a specification written in HTML format that was saved to a writable CD-ROM. The CD-ROM became the pointing...  
...documents were "live."

The reasons for writing to CD-ROM instead of just having the HTML files on the network or the workstation's hard drive are the multisession capability and...have done on the Web, visit the site of the American Institute of Architects ([http:// www .aia.org](http://www.aia.org)) for a list of site addresses ("AIA Members and Member-Firms on the...

...to architectural and construction firms under the Business and Economy heading at its site ([http:// www .yahoo.com](http://www.yahoo.com)).

11/8,K/53 (Item 4 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08992951 SUPPLIER NUMBER: 18512922 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Best Web browser. (includes related article on browsers other than Netscape Navigator and Microsoft Internet Explorer, where to get browsers) (Internet Survival Guide) (Software Review) (Evaluation)**

August, 1996

WORD COUNT: 3952 LINE COUNT: 00316

SPECIAL FEATURES: illustration; table

COMPANY NAMES: Netscape Communications Corp.--Products; Microsoft Corp.--Products

DESCRIPTORS: World Wide Web--Computer programs

SIC CODES: 7372 Prepackaged software

TICKER SYMBOLS: NSCP; MSFT

TRADE NAMES: Microsoft Internet Explorer 3.0 (Web browser)--Evaluation;

Netscape Navigator 3.0 (Web browser)--Evaluation

FILE SEGMENT: CD File 275

**Best Web browser . (includes related article on browsers other than Netscape Navigator and Microsoft Internet Explorer, where to...**

ABSTRACT: Netscape Communications' Navigator Web browser currently enjoys an overwhelming market share, and Microsoft's Internet Explorer has emerged as its...

...browsers for viewing sophisticated Web content because both companies have developed their own extensions to HTML . Both browsers rate very good in ease of use, and switching between the two is...

...only option. Navigator is the better of the two at reading Web pages; it supports Java and plug-ins, features that have not yet appeared in Internet Explorer. Internet Explorer has...

TEXT:

A browser is your passport to sites and sounds on the Web. Is it time to trade...

... all the World Wide Web's latest bells and whistles if you have the right browser --one that can take advantage of whatever a site has to

offer.

Not long ago...

...mortgage payment. Other browsers just can't keep up. They don't support the latest HTML extensions, they're slower at downloading, or they lack features in some other crucial area...

...we have to reserve judgment on some features, such as Internet Explorer's support for Java . But by the time you read this, both Navigator 3.0 and Internet Explorer 3...

...alike in many ways. Both offer a core set of features that conform to the HTML 3.0 standard, so you can use either product to see basic Web text, headlines...

...salvo when it added support for three important Web tools: frames, plug-ins, and the Java programming language. Frames make Web sites easier to navigate by dividing them into multiple, independently scrollable panes. Plug-ins, third-party program modules that extend a browser 's capabilities, and Java , which is used to create embedded Web apps, both make sites more interactive. Thanks to these extras, Navigator has grabbed an extraordinary 75 percent of the browser market, compared to about 10 percent for Internet Explorer.

But now it looks as if...

...has also developed ways to improve that technology. The beta we saw didn't have Java or plug-in support, but we expect the final version of Internet Explorer 3.0...

...is that Internet Explorer has become the better choice for workgroups. We tried the whiteboard, chat , and Internet phone tools that both products have added, and Internet Explorer really wowed us. Neither browser allowed more than two people to simultaneously use the phone, but Internet Explorer easily beat Navigator's one-to-one chat and whiteboard utilities by letting several people participate at once. The real tie-breaker is...

...Explorer a popular way of providing technical support over an intranet, for example.

So which browser is better? It's a tough call. For Web surfing, either is fine. But if the idea of using a browser to work with other people appeals to you, Internet Explorer's NetMeeting is a killer set of apps.

Which browser will win in the long run? That's even harder to predict. Navigator has the...

...comparison of Navigator 3.0 and Internet Explorer 3.0, read on. May the best browser win.

Ease of Use

Internet Explorer:Very good

Navigator:Very good

With the existence of...from a drop-down list on the toolbar. But Navigator stores them in a regular HTML file, making it possible to incorporate them as hot links into your own Web pages...

...site? Navigator 3.0 has the edge: It accepts abbreviated Net addresses, without the http:// www . prefix and .com suffix. Internet Explorer assumes only the http:// prefix.

If Microsoft consistently does...

...help, a nice utility with an extensive index and clear tutorials, is built into the browser . Navigator, by contrast, sends you to Netscape's Web site for help. We much prefer...

...the most frequent complaint about Internet surfing? It's s-l-o-w. Your Web browser should speed things up. When it comes to bringing up sites



quickly, Navigator and Internet...

...To compare pure display speeds, the PC World Test Center measured the time that each browser needed to load several Web pages laced with performance-dragging multimedia elements. We used a...

...everything on the Web? The answer is a qualified yes. Each company pushes its own HTML extensions; sometimes one browser ignores its rival's proprietary extensions or implements them differently.

For example, Navigator 3.0...

...tags. This means that if you use Navigator to view Microsoft's Web site (<http://www.microsoft.com>), you won't see the scrolling text that displays in Internet Explorer.

For...

...Internet Explorer 3.0 can see frames and adds a couple of enhancements: New Microsoft HTML extensions will let Web sites display frames without borders, giving the page a less cluttered...

...time we had not yet seen Internet Explorer 3.0's much-anticipated support for Java applications or Navigator plug-ins. But Microsoft promises that version 3.0 will work with...on.

Workgroup Tools

Internet Explorer:Very good

Navigator:Good

Have you ever thought of a browser as a workgroup application?

That's what the 3.0 versions of Internet Explorer and...

...that Netscape acquired when it bought InSoft Inc. For one thing, NetMeeting's whiteboard and chat utilities support multiple simultaneous users, unlike CoolTalk, which allows only two people to connect at...

...to fall prey to a really determined hacker, it's possible--but unlikely with either browser. Both Navigator and Internet Explorer have extensive security mechanisms built in, based on Secure Sockets...

...for a certificate of authentication from an independent organization. One such organization is VeriSign (<http://www.verisign.com>), a public certificate authority that provides digital authentication services and products for electronic...

...computer communications.

When you place an order with a certified site, its server tells your browser that the organization is legitimate. SSL 3.0 now provides personal certificates, the flip side...

...as a picture ID for the Internet) and prevents anyone from masquerading as you.

Downloaded Java applications can also pose security risks, according to Princeton University researchers (see Bug Watch, June). Security holes in Java and JavaScript, languages developed jointly by Netscape and Sun Microsystems, could allow programmers with malicious intent to build Java applications that tamper with your PC, say the researchers. But Netscape claims that the holes...

...they're found, said a Netscape representative. No Navigator customers have reported any problems with Java applications, he noted. According to Microsoft, Internet Explorer will help protect users from rogue applications...should rely on a third-party FTP client such as WS-FTP32.

So which Web browser will you be having today? Netscape's Navigator 3.0, Microsoft's Internet Explorer 3...

...Have All the Browsers Gone?

At one time, Netscape's Navigator was just another Web browser, with plenty of competition from products developed by organizations ranging from online services to universities...

...Cornell University Law School still offers version 1.01a free from its Internet site. This browser was looking old when we reviewed it last year; by now it's positively ancient, with no support for frames or Java applets. [http:// www .law.cornell.edu/cello/cellotop. html](http://www.law.cornell.edu/cello/cellotop.html)

Spyglass Mosaic 2.11: Formerly Enhanced Mosaic 2.0, this browser is highly competitive with the Netscape and Microsoft offerings. You can't buy it directly, however; Spyglass sells it only to other companies for use in their Internet products. [http:// www .spyglass.com/products/mosaic...](http://www.spyglass.com/products/mosaic...)

...download. [html](#)

Internet Chameleon 4.5 for Windows 95 and Windows 3.1: Access to Web sites...

...points are its dial-up ability and integration among 18 different Internet utilities. Its Web browser, on the other hand, is relatively weak. [http:// www .netmanage.com/netmanage/products/intcham.index. html](http://www.netmanage.com/netmanage/products/intcham.index.html)

InternetWorks 1.0 Internet: Works is now bundled with America Online's Global Network Navigator service and isn't sold commercially. [http://gnn-e2a.gnn.com/gnn/join/joingnn/member. html](http://gnn-e2a.gnn.com/gnn/join/joingnn/member.html)

Mosaic in a Box for Windows 95: CompuServe Internet Division (formerly known as Spry) released Mosaic in a Box for Windows 95 last August. The browser hasn't kept up with the times, however. It lacks support for leading-edge elements like frames and HTML tables. <http://support.spry.com/public/mbox/>

NCSA Mosaic 2.1.1: The National Center...

...Navigator or Internet Explorer for viewing the spots that use the hottest design techniques. [http:// www .ncsa.uiuc.edu/SDG/Software/WinMosaic/](http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/)

NetCruiser 2.1: Netcom's NetCruiser 2.1 is available only with a Netcom account. [http:// www .netcom.com/netcom/netcrz. html](http://www.netcom.com/netcom/netcrz.html)

SuperHighway Access 2: SuperHighway Access 2 packs nearly as many features as Internet Explorer or...

...are still around. (For example, you still can't cache documents from previous sessions.) [http:// www .frontiertech.com/products/sha2.htm](http://www.frontiertech.com/products/sha2.htm)

winWeb 1.0 A2.3: winWeb no longer exists as a stand-alone product. EInet, now TradeWave, incorporated the browser into Virtual Private Internet 2.0, a tool kit to build secure corporate intranets. [http://galaxy.tradewave.com/tradewave/products/tradevpi. html](http://galaxy.tradewave.com/tradewave/products/tradevpi.html)

--Amy Helen Johnson

Related article: Where to Get Them

How can you get a copy...

...but you can also download it at no cost from Microsoft's Web site ([http:// www .microsoft.com](http://www.microsoft.com)). You can download a copy of Navigator from Netscape's site (<http://home...>

...to an online service? CompuServe and America Online will soon make Internet Explorer their default browser, with Navigator as an option. Prodigy will offer Navigator, but not Internet Explorer.

ISPs: If...

...ranging from AT&T to small start-ups such as Earthlink, bundle or recommend one browser or the other. Microsoft holds the edge in sheer number of deals struck, probably because...

TRADE NAMES: Microsoft Internet Explorer 3.0 (Web browser)--...

...Netscape Navigator 3.0 (Web browser)--

11/8,K/54 (Item 5 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08979654      SUPPLIER NUMBER: 18706700      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The Internet connection - @Home. (@Home Network Corp) (Company Business and  
Marketing)  
Sep 16, 1996  
WORD COUNT:    2115      LINE COUNT:    00164

COMPANY NAMES: At Home Corp.--Services  
INDUSTRY CODES/NAMES: ELEC Electronics; BUSN Any type of business  
DESCRIPTORS: Internet--Services; Computer services industry--Services  
PRODUCT/INDUSTRY NAMES: 4811500 (Specialized Telecom Services)  
SIC CODES: 4822 Telegraph & other communications  
FILE SEGMENT: CD File 275

...ABSTRACT: via cable TV. The fee covers unlimited Internet access, a  
cable modem, e-mail and chat rooms, the Netscape-based @Home Web browser  
that can be customized and a menu that covers local community activities.  
@Home's appeal...  
... receive 24 hours of unlimited access to the Internet, a cable  
modem, E-mail and " chat " functions, a customized @Home Web browser and  
a menu of local community content.  
So what do you get for \$34.95...

...the story, the user can click directly on the bill via a hyperlink.  
The Web browser @Home uses is a custom version of the Netscape  
Navigator client software from Netscape Communications...have here is a  
consortium of anti-Microsoft partners, and @Home is willing to push Java .  
Microsoft is trying to do all the jobs, such as being the Internet access  
provider and browser developer. You don't need a Microsoft browser or  
ActiveX to have the best delivery of information to the people. (With  
@Home), we...

...pipes but cable that provides two-way transmission to provide for  
outgoing data such as chat sessions, E-mail or personal Web sites over  
cable.  
One of the reasons @Home chose...

11/8,K/55      (Item 6 from file: 148)  
DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08979261      SUPPLIER NUMBER: 18691191      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
iChat 2.0's Web focus ideal for tours, training; suited for group meetings,  
not in-depth collaboration. (iChat Inc's Web-based chat software)  
(includes a related article on WebMaster Inc's ConferenceRoom 1.1)  
(Software Review) (Evaluation)  
Sep 16, 1996  
WORD COUNT:    1205      LINE COUNT:    00098

SPECIAL FEATURES: illustration; other  
COMPANY NAMES: ichat Inc.--Products  
INDUSTRY CODES/NAMES: CMPT Computers and Office Automation; BUSN Any  
type of business  
DESCRIPTORS: Work group computing--Computer programs; Network software--  
Evaluation  
PRODUCT/INDUSTRY NAMES: 7372690 (Communications Software NEC)  
SIC CODES: 7372 Prepackaged software  
TRADE NAMES: iChat 2.0 (Workgroup software)--Evaluation  
FILE SEGMENT: CD File 275

...tours, training; suited for group meetings, not in-depth collaboration.  
(iChat Inc's Web-based chat software) (includes a related article on  
WebMaster Inc's ConferenceRoom 1.1) (Software Review) (Evaluation)

ABSTRACT: iChat Inc's iChat version 2.0 chat software provides a medium for answering questions, holding briefings and providing technical support over the...

...supports moderated conferences and file sharing, while also increasing the flexibility of client support via Java . The program lacks the collaboration tools included with such chat packages as The Forefront Group's RoundTable, however. Moderators allow specific participants to have what...

TEXT:

While they are often used for entertainment, chat packages can also help companies get more mileage out of their training and other efforts...

... are starting to offer more World Wide Web integration via plug-ins to browsers or Java -based clients embedded in browsers, iChat has stronger Web capabilities. It can be used, for example, to provide tours of Web sites, taking questions in chat mode and linking participants' Web browsers to display the same Web page.

Version 2.0...

...addition of file sharing, and increases the flexibility of client support through the use of Java . Future versions will incorporate voice and other multimedia functions, company officials said.

Unfortunately, iChat does not provide the extensive collaboration tools found in some competing chat packages, such as The Forefront Group's RoundTable, which offers shared workspace to enable a...

...server license to \$8,995 for a 1,000-user server license.

Follow the leader

Chats are divided into different channels, or rooms, and it was possible to "follow" someone from chat room to chat room. We also could follow a leader as he or she surfed the Web. Each...

...the leader moved to a different Web site, the site was displayed on our Web browser . Meanwhile, we could make comments, ask questions and engage in other dialog via the iChat chat window.

The moderation features added in Version 2.0 are mostly oriented to question-and...

...conversations are linked via the iChat ROOM (Real-time Object Oriented Multimedia) Server, which adds chat and participatory Web navigation onto a conventional Web server.

Each chat takes place in a room. As an administrator, it was easy to assign a room...

...plug-ins, we had convenient access to all of the iChat navigational functions. But the chat client took up at least half the screen, forcing us to do a lot of...

...such as a furrowed brow that might indicate confusion are not available to text-based chat . So iChat has built in some text-based stand-ins.

For example, using a semicolon...

...can be reached at matt--kramer@zd.com.

Related article: ConferenceRoom opens door to IRC, Java

While iChat provides more extensive World Wide Web navigation features than its competitors, there are many tools that provide chat capabilities through Web browsers.

One new option is WebMaster Inc.'s ConferenceRoom 1.1, which combines a Web server and chat capabilities in a flexible package that can run on either Windows 95 or Windows NT...

...run on Unix systems.

Because ConferenceRoom 1.0 is based on the IRC (Internet Relay Chat ) standard, it can either use its own Java chat client, which plugs into

Netscape Communications Corp.'s Navigator or Microsoft Corp.'s Internet Explorer, or use a conventional IRC-based chat client.

We installed the ConferenceRoom server on a Windows NT Advanced Server and used the Java client under Internet Explorer 3.0.

WebMaster has stripped out many of the features found in other IRC clients in order to keep the Java applet less than 10K bytes in size. Some functions available in other IRC clients, such as the ability to transfer files, are not available in the ConferenceRoom Java applet.

Like iChat, ConferenceRoom holds chats by assigning topics to a particular room. It also...

...WebMaster, of Santa Clara, Calif., can be reached at (408) 345-1800 or at [http:// www .webmaster.com](http://www.webmaster.com).

11/8,K/56 (Item 7 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08978250 SUPPLIER NUMBER: 18607265 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**State of the applet: there are still no serious Java business apps. (Java applets) (Technology Information)**

August 19, 1996

WORD COUNT: 1524 LINE COUNT: 00127

SPECIAL FEATURES: illustration; table

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation; BUSN Any type of business

DESCRIPTORS: Programming languages--Usage; Computer software industry--Product development

PRODUCT/INDUSTRY NAMES: 7372510 (Computer Language Software ex Military)

SIC CODES: 7372 Prepackaged software

FILE SEGMENT: CD File 275

**State of the applet: there are still no serious Java business apps. (Java applets) (Technology Information)**

ABSTRACT: Software industry observers report there are plenty of Java application development software kits available but there are no truly functional business applets and no system that supports the programs. The lack of Java -based business applets is a direct result of the dearth of Java development standards. Netscape's Navigator 2.0 Web browser supports Java applets but fails to reliably process applets that are more complex than simple Web page animations. However, Netscape, Microsoft and other companies are expected to remedy this problem and address Java applet slow download times in the newest versions of their browsers. However, these obstacles are not stopping companies from developing Java development tools. Many of the products require little or no Java programming expertise but this ease-of-use feature interferes with developer's ability to create complex Java business applications.

TEXT:

Seven months after sun Microsystems released the Java Software Development Kit--and at least one year after Java was proclaimed as one of the hottest technologies of the decade--there still are no serious Java business applications. What we have instead is a Java industry that is bursting at the seams with developer tools. But there are no reliable places to run applets (the name for applications written in Java that are executed in a Web browser ), nor are there enough standards in place to create serious applets for business users.

... database connectivity," says Thomas Murphy, product line manager for Objectshare Inc., who notes that the Java Data Base Connectivity (JDBC) specification won't become a standard until later this year. "There ...

...But a lack of standards isn't the only problem. Most businesses expect to deploy Java applets by having users download and execute the applets in a Java -capable browser . But developers have found that the most popular Java -capable browser , Netscape's Navigator 2.0, suffers from performance and reliability problems when executing Java applets.

"Navigator 2.0 works fairly well with little applets that animate things on your...

...that are broken." Cadis, whose customers include Hitachi, National Semiconductor, and Phillips, has implemented a Java client for Krakatoa, its client-server content management and search engine. But Cadis has had problems with its client because of difficulties with the Java Virtual Machine currently implemented in browsers such as Navigator 2.0.

"In Navigator 3.0...

...correct operation of the GUI environment, JIT (just in time) compilers, faster download time, persistent Java applets, and caching that works properly," says Pendleton.

Cadis has developed an alternative Web-based front-end using a combination of JavaScript and HTML frames that is faster and more reliable than the Java applet version. For example, downloading a Java applet using Navigator 2.0 takes several minutes over slow (less than 512-Kbps) links...

...because Navigator 2.0 makes a time-consuming connection to the server to download each Java class and then checks to make sure the date and time stamps are correct on the other downloaded classes.

In Navigator 3.0, developers can compress all of the Java classes into a single file to greatly reduce download time for applets. But for now, "the Java front end makes the most sense in an intranet situation where you have a higher...

...Chris Beal, chief technology officer at Cadis. "But we anticipate Netscape and Microsoft will make Java applets download faster."

The new JIT Java compilers, which have been developed by several vendors and are built into Navigator, Microsoft's Internet Explorer 3.0, and several Java Integrated Development Environments (IDEs), will speed up the sluggish execution of applets by translating Java byte codes directly into native machine code. Navigator 2.0 and Sun's Java Development Kit use a slower interpreted method of executing Java applets.

#### Security Limits

Performance wasn't the issue at Ichat Inc., but security limitations and development tools made a difference. Ichat recently released a Java applet version of its chat client, which also comes in Netscape plug-in and ActiveX control versions. All three clients share nearly identical user interfaces, but the Java version has one significant limitation: While the ActiveX control and plug-in versions let users exchange files with each other while chatting, the Java client can't exchange files because of security limitations imposed by the browser execution environment. Java applets running inside of Navigator or Internet Explorer browsers cannot access the local file system...

...time than expected was required to implement certain features. "It's challenging to develop in Java because the development environment isn't as advanced as, say, Microsoft's Visual C++," says...

...have a component piece that lets you do colored text inside a window. For our Java client, we're going to have to write our own class libraries to do that."

Developer tools is where business is booming for Java these days. There are close to 40 Java IDEs available for Windows, Macintosh, OS/2, and Unix platforms, as well as at least...

...tools and many other specialized tools.

A list of these tools is available at [http:// www](http://www)

.cybercom.net/ frog/javaide. html .

No Programming Needed

Some of the tools require just a bit of programming skill--or...

...0, no programming skills at all. AppletAce lets users select from a pool of customizable Java applets. The AppletAce walks the user through a series of dialog boxes to select the look and feel of the applet.

At the end, the applet and the HTML code needed to execute it are automatically generated for the user. For example, you can...

...and how often you want the applet to update from the text file.

Parts for Java 1.0 is Objectshare's new Java Visual Programming Environment. It doesn't require a lot of programming knowledge to use, and it's also a great way to learn about the structure and limitations of Java classes. Parts for Java lets you lay out Java GUIs with drag-and-drop simplicity and sets up event handlers automatically.

Creating an easy-to-use development package gave Objectshare some insight into Java problems as well. "The Java tools are capable, but performance is still an issue," says Objectshare's Murphy. "There are...class libraries still need performance work." The AWT controls the display of GUI elements in Java .

Murphy says quality Java development tools are only now reaching fruition. The result is that end users will be...very long," he says.

Applets For Sale

Still, online "storefronts" ready to start selling serious Java applets are already popping up on the Web. Using the Internet as a delivery and...

...downloads and installs at the same time.

Online stores such as the Cafesoft Store ([http:// www .cafesoft.com/store](http://www.cafesoft.com/store)), Cup O' Joe Java Shop ([http:// www .cupojoe.com/](http://www.cupojoe.com/)), and Gamelan Direct (<http://direct.gamelan.com/>) are open for business. But a...

...tech merchants are sure that will change.

"We're looking at adding 15 to 20 Java -based commercial applications by the end of August, and 75 by the end of the...

...user-productivity applications. "I think it will be a year before we see strong intranet Java applications," she says.

In a marketing experiment, Earthweb is distributing its Java Chat client using a technique it calls transparent distribution. Web sites can host their own chats on Earthweb's chat server ([http:// chat .earthweb.com/](http://chat.earthweb.com/)) by licensing a customized piece of HTML code to put on their Web pages. That code downloads Earthweb's chat client and connects to a private chat for that Web site on Earthweb's chat server. The service is free for now and has more than 8,000 chats running on it, according to Earthweb. After Sept. 30, a subscription to the chat server will cost \$200 per year.

But the growing availability of Java -based products can't disguise the fact that Java development is still in the formative stages. While a year may seem like a long time, it's barely a start in the life of a programming language. Java will really take off once more standards are in place and there's a more stable environment for running Java applets.

That will happen eventually--it just hasn't yet.

A Sampling Of Java Products

Company: Objectshare Systems, [http:// www .objectshare.com](http://www.objectshare.com)

Product: Parts for Java 1.0

Availability: Now

Company: Macromedia, [http:// www .macromedia.com](http://www.macromedia.com)

Product: AppletAce 1.0

Availability: Now

Company: Cadis, [http:// www .cadis.com](http://www.cadis.com)

Product: Krakatoa  
Availability: Now

Company: Dun & Bradstreet Software, [http:// www .dbsoftware.com](http://www.dbsoftware.com)  
Product: SmartStream Web Series Requisition  
Availability: Fourth quarter

Company: Ichat, [http:// www .ichat.com](http://www.ichat.com)  
Product: Java client  
Availability: Now  
Data: Vendors

**11/8,K/57 (Item 8 from file: 148)**

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08874055 SUPPLIER NUMBER: 18579877

**Network Traffic. (News Briefs)**

August 12, 1996

WORD COUNT: 489 LINE COUNT: 00043

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation; BUSN Any  
type of business  
FILE SEGMENT: CD File 275

... Inc. of Menlo Park, Calif., this month released a public beta version of Joe, a Java -based object request broker designed to help network managers connect applications and servers to the...

...only modified information between existing systems and Web browsers. It can be downloaded from [http:// www .sun.com/sunsoft/neo](http://www.sun.com/sunsoft/neo). ... Webster Computer Corp. of San Jose, Calif., this month shipped the...

...alliance, users will be able to launch Enhanced CU-SeeMe from within Internet Explorer to chat with other users. The agreement between Nashua, N.H.-based White Pine and Redmond, Wash...

...version of the Internet Connection Kit will also include the Look@Me applet and Web browser plug-in from Alameda, Calif.-based Farallon. Both Apple kits are scheduled to ship later...

...Finjan Software Ltd. of Berkeley, Calif., which in July shipped the first security enhancement for Java . Priced at \$49, SurfinBoard is a Java applet that scans all incoming Java applets to ensure they do not execute malicious commands or attempt to invade the user...

**11/8,K/58 (Item 9 from file: 148)**

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08760142 SUPPLIER NUMBER: 18381403 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**TV's fuzzy Web sight. (Web pages displayed on TVs lack resolution, clarity)**  
**(PC Week Inside) (Internet/Web/Online Service Information)**

June 10, 1996

WORD COUNT: 952 LINE COUNT: 00076

COMPANY NAMES: Bandai Company Ltd.--Products; Sega Enterprises Ltd.--  
Products; Philips Gloeilampenfabrieken N.V.--Products  
INDUSTRY CODES/NAMES: CMPT Computers and Office Automation  
DESCRIPTORS: Television sets--Usage; Consumer electronics industry--  
Product development  
PRODUCT/INDUSTRY NAMES: 4811500 (Specialized Telecom Services)  
SIC CODES: 4822 Telegraph & other communications  
FILE SEGMENT: CD File 275



... such as using data tables for text formatting, can easily crack a made-for-TV browser . Small objects don't display well at all on television. And different aspect ratios mean...

...America's game player--saddled up with a 28.8K-bps modem and a custom browser . Sega will target current Saturn owners by offering a \$199 upgrade. Kerry Bradford, general manager...

...on the TV display, converting Web text and graphics into CD-I formats. A custom browser with "reasonable resolution" is under development, promises John Gray, president of Philips Media. "A lot...

...the three, Bandai Digital Entertainment's Pippin@World player, which uses Apple software, a Netscape browser and a PowerPC chip, comes closest to capturing a true Internet experience. But at E3...

...never reach mass market popularity. Why? Just as the Net is being juiced up with Java , VRML and Shockwave, most of the low-cost boxes won't have enough memory to employ those technologies. Pippin can handle Java plug-ins--if users are willing to pay another \$130 for a memory upgrade. "These...

...entertaining experience."

To add value, most devices will be bundled with E-mail, newsgroup posting, chat rooms and an easy-to-use interface. "If these machines are presented to the consumer...

...too, with Web page designers, says Ken Soohoo, CTO of PlanetWeb, which is providing a browser to Sega. Designers should build alternate versions of their page, one for TV display, another...

11/8,K/59 (Item 10 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08656662 SUPPLIER NUMBER: 18254310 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**New Internet users being wooed with WOW! (CompuServe Inc.'s new online service)**

March 30, 1996

WORD COUNT: 699 LINE COUNT: 00055

COMPANY NAMES: CompuServe Inc.--Services

INDUSTRY CODES/NAMES: ARTS Arts and Entertainment

DESCRIPTORS: Internet--Services; Information services industry--Services

PRODUCT/INDUSTRY NAMES: 4811500 (Specialized Telecom Services)

SIC CODES: 4822 Telegraph & other communications

FILE SEGMENT: TI File 148

... the WOW! interface relies heavily on colorful graphics and animation similar to that used on Java -encoded Web sites.

Many of the graphics contained on the service can be instantly accessed...

...Among other features, WOW! provides users with a customized version of Microsoft's Internet Explorer browser . The inclusion of the Internet Explorer on WOW! is considered a coup for Microsoft in its heated battle with Netscape to determine a single Web browser standard. In early March, America Online agreed to use Internet Explorer as its default browser for Internet access on the forthcoming 3.0 version of its software. In exchange, Microsoft...

...WOW! will be included on future Windows releases.

Baker says that users can replace the browser with Netscape Navigator if they choose.

Parents who are concerned about their children accessing some of the more risqué elements of the Internet can choose a customized "kids" browser , which blocks access to sexually themed material and disables all chat and electronic shopping functions. The kids' version is customized with simple, one-click mouse commands...

**11/8,K/60 (Item 11 from file: 148)**

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08644250 SUPPLIER NUMBER: 18260559

**No show. (Interact '96 global, virtual conference) (Industry Trend or Event) (Editorial)**

April 29, 1996

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation  
DESCRIPTORS: Computer industry--Conferences, meetings, seminars, etc.  
FILE SEGMENT: CD File 275

...ABSTRACT: virtual conference feature was aggravating. Users could not take complete advantage of it without a Java-enabled browser and a variety of plug-in programs, many of which are not yet commercially available. There was also not much to see on the floor once users logged on. The chat rooms were not valuable either; most participants were asking if anyone else was out there...

**11/8,K/61 (Item 12 from file: 148)**

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08605115 SUPPLIER NUMBER: 18203182 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Chameleon well-adapted to 'net. (NetManage Inc's Chameleon for Windows 5.0 Internet suite) (Software Review) (Evaluation)**

April 15, 1996

WORD COUNT: 717 LINE COUNT: 00058

SPECIAL FEATURES: illustration; other  
COMPANY NAMES: NetManage Inc.--Products  
INDUSTRY CODES/NAMES: CMPT Computers and Office Automation  
DESCRIPTORS: Internet--Computer programs  
PRODUCT/INDUSTRY NAMES: 7372620 (Networking Software Pkgs)  
SIC CODES: 7372 Prepackaged software  
TICKER SYMBOLS: NETM  
TRADE NAMES: NetManage Chameleon for Windows 95 5.0 (Network software)--  
Evaluation  
FILE SEGMENT: CD File 275

...ABSTRACT: NetManage TCP/IP stacks, but compatibility with WinSock is not clearly documented. The included WebServer browser supports HTML 3.0 and works as quickly as Netscape Navigator, but it does not support Java . The packages mail module has been improved and is more robust than that included in...

...easy to use and offer an extremely wide variety of connectivity options, including Internet Relay Chat , anonymous auto-login FTP and advanced terminal emulation modes. The product costs \$400, or \$495...

... about everything you need to get on the Internet, including a mail client, a Web browser , and about 50 other programs.

Pros: Easy to use; fast; has many programs and features...

...NetManage Inc., Cupertino, Calif.; (408) 973-7171; fax: (408) 257-6405;  
sales@ netmanage.com; http:// www .netmanage.com.

Price: \$400; with NFS support: \$495.

Platforms: Windows 3.11, Windows 95 (NFS...

...Chameleon provide standard applications such as e-mail, File Transfer Protocol (FTP), and a Web browser , it also provides many intranet-oriented groupware functions, such as file and printer sharing, group...

...emulations, and there's even a client for getting into discussions using the Internet Relay Chat protocol.

The new version of Chameleon's Web browser , WebSurfer, is much faster than the version included with Chameleon 4.0 and appears to be as fast as Netscape Navigator on Windows 95. WebSurfer now supports HTML 3.0 and in-line video. The major enhancement, however, is the capability to access...

...very useful. One serious deficiency that NetManage has yet to address is the lack of Java support. In that respect, WebSurfer is still playing catch-up with other Web browsers.

Chameleon...

11/8,K/62 (Item 13 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08525786 SUPPLIER NUMBER: 18089314 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**When is Netscape going to grow up? (Netscape Communications, Microsoft compete for Internet) (Outlook 2001) (Company Business and Marketing) (Column)**

March 11, 1996

WORD COUNT: 479 LINE COUNT: 00042

COMPANY NAMES: Netscape Communications Corp.--Planning; Microsoft Corp.--Planning

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation

DESCRIPTORS: Computer software industry--Planning; Internet--Planning

PRODUCT/INDUSTRY NAMES: 7372000 (Computer Software)

SIC CODES: 7372 Prepackaged software

TICKER SYMBOLS: NSCP; MSFT

FILE SEGMENT: CD File 275

...ABSTRACT: days. Application development will always require investment and technological prowess, despite the advances inherent to Java . Microsoft continues to position Windows as the central platform for future development. Netscape's ultimate...

... environments don't take three days or even three weeks.

Maybe Andreessen's talking about Java -based clocks and board games, chat forums, simple applications that do SQL lookups from a browser , Web page creation, or installation of some prepackaged solution.

Java -enabled versions of popular enterprise software will spur the adoption of Internet-enabled solutions and...

...of installing and supporting applications, but developing applications will still require time, talent, and money. Java looks promising compared with standard C++, but for now the tools and speed are still...

11/8,K/63 (Item 14 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08508511 SUPPLIER NUMBER: 18064051 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Virtual reality takes next step with Moving Worlds. (Virtual Reality Modeling Language standard proposed by Silicon Graphics nears acceptance) (Internet)**

March 4, 1996

WORD COUNT: 468 LINE COUNT: 00040

SPECIAL FEATURES: illustration; other  
 COMPANY NAMES: Silicon Graphics Inc.--Standards; Black Sun Interactive Inc.--Product development  
 INDUSTRY CODES/NAMES: CMPT Computers and Office Automation  
 DESCRIPTORS: Three-dimensional graphics--Standards; Computer industry--Standards; World Wide Web--Standards  
 GEOGRAPHIC CODES: eb  
 PRODUCT/INDUSTRY NAMES: 7372205 (Graphics Software Pkgs)  
 SIC CODES: 7372 Prepackaged software  
 TICKER SYMBOLS: SGI  
 FILE SEGMENT: CD File 275

...ABSTRACT: pledging to support the specification include Apple, Borland, IBM, Adobe Systems and Netscape Communications. The Java -based specification adds motions, interactivity and 'behaviors' to three-dimensional spaces, whereas the previous standard...  
 ... over the Internet, sources said.

The new interactivity is based on Sun Microsystems Inc.'s Java and JavaScript programming languages. Third-party plug-in applications written in C can be used...

...World's specification, Netscape started beta testing new Netscape Live3D extensions to its Navigator Web browser . The new extensions enable users to view VRML sites, as well as add 3-D extensions to Java , JavaScript, and Netscape's Plug-In set of APIs.

Netscape's Live3D foundation is based...

...new 3-D VRML platform that will support Moving Worlds and consists of CyberGate, a browser ; CyberHub, an interactive chat server; and CyberKit, an authoring package.

With CyberGate now shipping, Franz Buchenberger, president and CEO...

...on Black Sun's Web site. Black Sun is at (415) 263-6836 or [http:// www .blacksun.com](http://www.blacksun.com).

**11/8,K/64 (Item 15 from file: 148)**

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08508444 SUPPLIER NUMBER: 18063983 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Sun is working on rebuilt HotJava as hosting environment. (Browsers Take New Turn) (Sun Microsystems) (Product Development)**

March 4, 1996

WORD COUNT: 428 LINE COUNT: 00036

SPECIAL FEATURES: illustration; other  
 COMPANY NAMES: Sun Microsystems Inc.--Product development  
 INDUSTRY CODES/NAMES: CMPT Computers and Office Automation  
 DESCRIPTORS: Online searching--Computer programs; Computer software industry--Product development  
 PRODUCT/INDUSTRY NAMES: 7372602 (Communications Software Pkgs (Micro))  
 SIC CODES: 7372 Prepackaged software  
 TICKER SYMBOLS: SUNW  
 TRADE NAMES: HotJava (Web browser)--Product development  
 FILE SEGMENT: CD File 275

ABSTRACT: Sun Microsystems is re-architecturing its HotJava Web browser with the intent of building a customizable hosting environment for Java -based applications. HotJava's first release will extend Web browser functions, creating an adaptable interface supportive of interactive content. Sun's JavaSoft division is developing HotJava as part of the company's two-part method for building and marketing Java applications. The SunSoft division will use HotJava as the interface for its Java Workshop development tool currently under design. HotJava development kits

will let developers tailor browsers to...

...and needs. HotJava's dynamic expendability allows automatic updates of the user interface with such Java applets as chat applications, word processors or spreadsheets downloaded from the Web.

TEXT:

Sun Microsystems Inc. is rearchitecting its HotJava World-Wide Web browser to create a customizable hosting environment for Java-based applications.

... for alpha release next month, the recrafted HotJava will extend the functions of the Web browser, creating an adaptable interface that supports interactive content, said Sun officials.

HotJava will differ drastically from the original, a standard Web browser that Sun put the breaks on last fall.

The new HotJava, being developed by Sun...

...JavaSoft division, is part of the company's two-pronged approach for creating and leveraging Java applications. Another division, SunSoft Inc., is set to debut next month its Java Workshop development tool, which will use HotJava as its interface.

"The underpinnings of HotJava are class libraries that we plan to extend and expand to add functionality to the browser," said Ruth Hennigar, general manager of languages and applications at JavaSoft, in Mountain View, Calif...

...enabling the dynamic extensibility within HotJava, the user interface can be automatically updated when a Java applet such as a word processor, chat application, or spreadsheet is downloaded over an Internet or intranet Web server.

Hennigar declined to...

...version of HotJava would be delivered, but she did say Sun will license the new browser technology to any of its Java licensees.

Java Workshop, due in April or May, is based on the browser metaphor, with each of its components appearing as a Web page. Some of the tools included in Java Workshop are a client-based just-in-time compiler, a source-code editor, a project manager, a portfolio manager, a debugger, an applet tester, and a source browser. Java Workshop also features an extensible tool bar.

"In HotJava there is no tool bar, but...

TRADE NAMES: HotJava (Web browser)--

11/8,K/65 (Item 16 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

08348373 SUPPLIER NUMBER: 17917054 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Web sites get interactive. (iband's Backstage Internet/Web server software) (Product Announcement)**

Dec 11, 1995

WORD COUNT: 532 LINE COUNT: 00046

SPECIAL FEATURES: illustration; other

COMPANY NAMES: iband--Product introduction

INDUSTRY CODES/NAMES: ELEC Electronics; TELC Telecommunications

DESCRIPTORS: Computer software industry--Product introduction; Online services--Computer programs

PRODUCT/INDUSTRY NAMES: 7372602 (Communications Software Pkgs (Micro))

SIC CODES: 7372 Prepackaged software

TRADE NAMES: Backstage (Internet/Web server software)--Product introduction

FILE SEGMENT: CD File 275

...ABSTRACT: and forms-to-electronic mail. Knowledge of how to write code in HyperText Markup Language ( HTML ) is not required. Backstage works with all currently available Web browsers and scales to exploit the latest capabilities of browsers, such as chat and interactivity included in HTML 3.0. iband co-founder and CEO Anthony Wood says Backstage is like a high...

... editor for creating and editing Web pages on the fly.  
Backstage will work with any browser on the market and will scale to take advantage of the latest features of browsers, such as chat and real-time interactivity available in HTML 3.0, according to the company.  
Company co-founder and CEO Anthony Wood said the...

...the library of pre-existing objects for moderated or unmoderated groups.  
Simple objects, such as browser plug-ins and configuration files, are updated monthly and downloadable free from iband's Web...

...features, such as support for tables in Microsoft Corp.'s Internet Explorer 2.0 or Java plug-ins for Netscape 2.0, will be updated every three months.  
Iband said it...

...first quarter of 1996, iband will provide Unix versions.  
Iband can be reached at [http:// www . iband.com](http://www.iband.com) or 408-374-4086.

11/8,K/66 (Item 17 from file: 148)  
DIALOG(R) File 148: (c)2000 The Gale Group. All rts. reserv.

08181496 SUPPLIER NUMBER: 17527105 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Netscape readies IP app platform. (Netscape Communications Corp's Netscape Navigator 2.0) (Product Announcement)**  
Sep 18, 1995  
WORD COUNT: 1006 LINE COUNT: 00083

SPECIAL FEATURES: illustration; other  
COMPANY NAMES: Netscape Communications Corp.--Product introduction  
INDUSTRY CODES/NAMES: ELEC Electronics; TELC Telecommunications  
DESCRIPTORS: Computer software industry--Product introduction; Data base searching--Computer programs; World Wide Web--Computer programs  
PRODUCT/INDUSTRY NAMES: 7372420 (Database Mgmt Software Pkgs (Micro))  
SIC CODES: 7372 Prepackaged software  
TICKER SYMBOLS: NSCP  
TRADE NAMES: Netscape Navigator 2.0 (Web browser)--Product introduction  
FILE SEGMENT: CD File 275

ABSTRACT: Netscape Communications Corp, the software industry's leading Web browser company, will ship a new version of its Navigator client in Dec 1995. Version 2...

...client with strong security features. Web-development tools are also expected, based on Sun Microsystems' Java object-oriented programming language. According to industry observers, these resources will be important for facilitating...

The leading provider of World Wide Web browser software will begin shipping a new version of its Navigator client, as well as Web-development tools based on Sun Microsystems Inc.'s Java object-oriented programming language, in December.

These will prove to be key assets for developers...

...need to launch a helper application for each new format.  
Unix-based Mail Client

The browser also includes a Unix-based mail client that lets users send electronic mail securely by...

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00441136 96OA11-004

**Internet Explorer 3.0--new and improved -- From cartoon chat to content ratings, Microsoft's latest browser has it all**

19961101

Descriptors: Web Browsers; Upgrade; Competition; Window Software; Software Review

Identifiers: Microsoft Internet Explorer; Microsoft

**Internet Explorer 3.0--new and improved -- From cartoon chat to content ratings, Microsoft's latest browser has it all**

... very favorable review of Microsoft Internet Explorer v3.0 (\$NA), an upgrade to the Web browser from Microsoft Corp. Requires Windows 95 or Windows NT, and a 14.4-Kbps or faster modem. Claims that this browser makes a strong competitor for Netscape's Navigator v3.0, providing comparable features as well as several additional ones. Features include: ActiveMovie, HTML, the VRML Support v1.0 add-on, Java, ActiveX, Internet Mail, Internet News, the Content Advisor content rating system, Authenticode technology, NetMeeting, and Comic Chat. Points out that the browser is highly customizable, and provides instructions for basic customization, as well as 'tricks' for boosting its performance. Concludes that this free browser is worth a try, even for the most loyal Navigator user. Includes seven screen displays...

11/8,K/69 (Item 2 from file: 233)

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00435643 96WW09-116

**In crowded chat market, interface design is key -- Commercial products divide into offering embedded chat or separate clients**

19960909

Descriptors: Interpersonal Computing; Messaging; Data Communication; Software Evaluation; Web Sites; Vendor Guide; Computer Conferencing

**In crowded chat market, interface design is key -- Commercial products divide into offering embedded chat or separate clients**

Presents a buyers' guide to live chat software products. Suggests that Webmasters planning to add live chat to their sites determine what the goals are in implementing the chat environment in order to decide which type of commercial chat title is right for them. Points out that some titles offer separate chat clients, while others are browser-based. Also notes that there is a selection of Java-based and non-Java-based titles to choose from. Features may include event moderation, support for advertising banners, and simultaneous browsing. Points out the need to emphasize chat as a 'community-building' tool. (kgh)

11/8,K/70 (Item 3 from file: 233)

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00433036 96CW08-211

**Explorer gains ground -- In race against Navigator, Microsoft's Internet Explorer has more features, shaky performance**

19960819

Descriptors: Web Browsers; Software Review; Window Software; Web Tools

Identifiers: Microsoft Internet Explorer; Microsoft

... favorable review of the beta version of Microsoft Internet Explorer v3.0 (\$NA), a Web browser from Microsoft Corp. of Redmond, WA. Says it offers Internet mail and news readers, online chat, a shared whiteboard and telephony utility, full Java support that includes a just-in-time

...does support the Simple Mail Transfer Protocol and POP3 standards. Release 2.0 also supports chat and the ability to send and receive files via file transfer protocol. Perhaps even more...

...Mountain View, Calif.-based Netscape is introducing a new scripting language, which is based on Java but doesn't require programming expertise.

"Netscape Scripting Language is designed to allow power users...

...the client and the server."

Netscape's scripting language is a subset of Sun's Java, and does not let users create new classes of objects. Instead, the browser comes with its own object library.

A separate product, Netscape Navigator Gold 2.0, includes...

...bar that remains in place when moving to the next page.

"Netscape has turned the browser into a universal application-distribution mechanism," said Geoff Baehr, chief network officer at Sun, Mountain View, Calif.

Java technology lets users distribute program functions along with content, since it can include code that...

...or check to see if there is enough disk space to download video. And because Java is platform independent, developers need to write the programs only once.

Another bonus with Java is that it includes several layers of security, which prevents software that is downloaded to a user machine from infecting the system with a virus. Java applets can include digital signatures, letting corporations restrict usage.

Meanwhile, Netscape also aims to give...

...to different servers and the links will reconnect automatically.

LiveWire includes extensions for forms processing, HTML on the fly and interfacing with legacy applications. "Server extensions allow you to publish HTML pages to a Web server and compile the scripting-language programs so they run anywhere...

...Y.-based electronic publisher.

"My problem has been that not everyone has a Netscape compatible browser, and we're trying to publish a general-interest publication with users coming in from...

...On-Line| and CompuServe," White said.

The Navigator 2.0 evaluation is available at [http:// www .net-scape.com](http://www.net-scape.com) and will be \$49. The beta version of Navigator Gold 2.0...

TRADE NAMES: Netscape Navigator 2.0 (Web browser)--

11/8,K/67 (Item 18 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

07914511 SUPPLIER NUMBER: 16941653 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Netscape inks pact with Sun, Macromedia. (Netscape Communications Netscape Navigator, Sun Microsystems Java programming language)**

May 29, 1995

WORD COUNT: 452 LINE COUNT: 00040

SPECIAL FEATURES: illustration; other

COMPANY NAMES: Netscape Communications Corp.--Product development; Sun Microsystems Inc.--Products; Macromedia Inc. (Hackensack, New Jersey)--Products

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation



DESCRIPTORS: Data base searching--Computer programs; Computer software  
 industry--Products  
 PRODUCT/INDUSTRY NAMES: 7372420 Database Mgmt Software Pkgs (Micro)  
 SIC CODES: 7372 Prepackaged software  
 TICKER SYMBOLS: SUNW  
 TRADE NAMES: Netscape Navigator 2.0 (Database access software)--Product  
 development  
 FILE SEGMENT: CD File 275

**Netscape inks pact with Sun, Macromedia. (Netscape Communications Netscape Navigator, Sun Microsystems Java programming language)**

ABSTRACT: Netscape Communications is planning to integrate Sun Microsystems' Java programming language in its Netscape Navigator 2.0 World Wide Web browser software. Netscape is also planning to include licensed multimedia capabilities from Macromedia Inc for the browser. Sun's Java is a portable, object-oriented programming language with similarities to the C++ programming language that is intended for Web programming. The current version of Netscape Navigator is limited to HTML document support, which is adequate for some uses but is not efficient for real-time data. HTML is also not very good for use with chat applications. Version 2.0 of Navigator will also include support for at least two other...

TEXT:

Netscape Communications Corp. announced last week that Version 2.0 of its World Wide Web browser software, Netscape Navigator, will incorporate Sun Microsystems Inc.'s Java programming language.

... Francisco, is also expected to unveil next month plans to license multimedia capabilities for its browser from Macromedia Inc.

Java is an object-oriented, portable programming language similar to C++ that is designed for Web programming. Applets created with Java are more dynamic than Hypertext Markup Language (HTML) documents, enabling users to include elements such as animation on Web pages. Java includes hooks to HTML so that applets can be displayed on standard HTML Web pages.

Patrick Naughton, vice president of technology for Starwave Corp., a Web publishing company, has been using Java applets to create real-time chat areas and sports ticker displays on his company's Web sites.

"HTML is okay for publishing documents," Naughton said, "but when you get into real-time statistics and scores, it's not very efficient."

Users with HTML-only browsers, such as the current versions of Netscape Navigator and NCSA Mosaic, must manually reload a document in order to refresh information on the screen.

Similarly, HTML is not well suited to chat applications. "Chat is miserable with HTML |," Naughton said. "You have to constantly reload."

A Java applet, on the other hand, can offer chat capabilities similar to those available on America Online and other on-line services.

In addition to being compatible with HTML and Java, Netscape Navigator 2.0 will be compatible with at least two other types of document ...

...platforms, including Macintosh, Windows, Solaris, and others, according to Netscape.

Users interested in programming with Java can download free binary versions of the language for Solaris, Windows NT, and Windows 95 from <http://www.sun.com>. A Mac version will be available in June.

Currently, the only Java-compatible browser available is Sun's HotJava. Sun plans to license Java to other browser vendors, according to a company spokesman, although no agreements have been announced yet.

compiler, VRML support, and support for several full...

... Adds that it delivers sophisticated security facilities as well as a variety of controls for Java , ActiveX, and script downloading from foreign servers. However, says it has problems connecting to a...

**11/8,K/71 (Item 4 from file: 233)**

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00432162 96PM08-019

**All-in-one Internet suite: IBM Internet Connection 4.0**

19960801

Descriptors: Web Browsers; World Wide Web; Internet; Electronic Mail; Window Software; Software Review

Identifiers: Internet Connection; IBM Corp.

... bundle for Windows 3.1 and Windows 95, from IBM (800, 914). Includes WebExplorer Mosaic browser , e-mail, newsreader, FTP, and Telnet. Also features a chat application, Ping connection tester, and TCPCheck troubleshooter. Complains that the browser does not support frames, Java , or Shockwave. Concludes that this is a good basic collection of tools, but it does...

**11/8,K/72 (Item 5 from file: 233)**

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00429992 96PW07-011

**Internet Explorer versus Netscape Navigator: round three**

19960701

Descriptors: Web Browsers; Window Software; Software Review

Identifiers: Microsoft Internet Explorer; Netscape Navigator; Microsoft; Netscape Communications

... Navigator v3.0 (\$49) from Netscape Communications Corp. (415). Says Explorer now supports plug-ins, Java , and frames. It also includes ActiveX object technology whose controls can create Web apps currently possible only with Java and plug-ins. Adds that Explorer also supports TrueType fonts, and it includes an e...

... the major new feature in Navigator is CoolTalk, a phone client with a pop-up chat screen for typing and a whiteboard paint applet. This release of the browser supports integrated audio and video and enhanced security options. Notes that Microsoft plans to release...

... of Explorer which incorporates the Windows 95 Desktop Explorer in a few months, but this browser will not be free. Includes two screen displays. (djd)

**11/8,K/73 (Item 6 from file: 233)**

DIALOG(R)File 233:(c) 2000 INFORMATION TODAY INCL. All rts. reserv.

00408249 96PM01-014

**Navigate the Net interactively**

19960101

Descriptors: Web Browsers; Internet; Software Review; Window Software

Identifiers: Netscape Navigator; Netscape Communications

Presents a very favorable review of Navigator 2.0 (\$49), a Web browser from Netscape Communications (800, 415). The program requires a 486-based PC or better with...

... 3.5, Unix, and Macintosh. New in this release are support for e-mail, newsgroups, chat functions, HTML 3.0 and Java support, file transfers, and enhanced performance. Its support for HTML 3.0 allows it to display textured backgrounds, blinking text, colored hypertext links, and transparencies...

... on one screen, similar to picture-in-picture TV. Calls this ``the most advanced Web browser you can buy.'' Includes two screen displays. (djd)

**11/8,K/74 (Item 1 from file: 256)**

DIALOG(R)File 256:(c)1999 INFO.SOURCES INC. All rts. reserv.

00098264 DOCUMENT TYPE: Review

**PRODUCT NAMES: Java (573744); VRML 1.0 (835315); VRML 2.0 (835315)**

**TITLE: Java and VRML combination may silence critics of both**  
Nov 1996

DESCRIPTORS: Java; VRML; Virtual Reality; Program Development Aids;  
Programming Languages; Integration Software; Simulation  
REVISION DATE: 990823

**PRODUCT NAMES: Java (**

**TITLE: Java and VRML combination may silence critics of both**

VRML's WRL 1.0 is wrapped in a Sun Microsystems' Java application programming interface (API) to integrate Java with Virtual Reality Modeling Language (VRML), which has been released to date in versions 1...

...receive information. Navigating VRML worlds is similar to navigating the Web, since both require a browser. VRML 2.0 supports full interaction because Java scripts can be attached to objects. It includes many new features, such as a node...

...Only programmers' skills and imagination can limit the applications possible with VRML 2.0 and Java; however, whether users know what they want to do with virtual worlds is another question...

...that can be manipulated and tested on the World Wide Web, VRML 2.0 and Java will support virtual chat rooms, with chatters represented by avatars.

DESCRIPTORS: Java; VRML; Virtual Reality; Program Development Aids;  
Programming Languages; Integration Software; Simulation

**11/8,K/75 (Item 2 from file: 256)**

DIALOG(R)File 256:(c)1999 INFO.SOURCES INC. All rts. reserv.

00092196 DOCUMENT TYPE: Review

**PRODUCT NAMES: Microsoft Internet Explorer 3.0 Beta (577375)**

**TITLE: Explorer 3.0 dressed for success**  
Jun 10, 1996

DESCRIPTORS: Internet Utilities; User Interfaces; Front Ends; IBM PC &  
Compatibles; Computer Conferencing; Public Networks; HTML; Internet  
Browsers; Internet Explorer  
REVISION DATE: 990530

Microsoft's Internet Explorer (IE) 3.0 (beta) World Wide Web browser is attractive, intuitive to use, and has an easily navigable graphical user interface (GUI) and ActiveX support. Hypertext Markup Language ( HTML ) 3.2 is supported, as are variable typefaces. No Java support is apparent, and mail and news components are not fully integrated. Support for borderless ...

...engines are supported, as are multiple, concurrently open windows. The intuitive Favorites bookmark and Netmeeting chat and whiteboard functions are provided. Frames allow uses to divide a Web page into several...

DESCRIPTORS: Internet Utilities; User Interfaces; Front Ends; IBM PC & Compatibles; Computer Conferencing; Public Networks; HTML ; Internet Browsers; Internet Explorer

**11/8,K/76 (Item 3 from file: 256)**

DIALOG(R)File 256:(c)1999 INFO.SOURCES INC. All rts. reserv.

00086900 DOCUMENT TYPE: Review

**PRODUCT NAMES: Company - Netscape Communications Corp (858498)**

**TITLE: Netscape founder eyes Net goals**  
Nov 6, 1995

DESCRIPTORS: Internet Utilities; Public Networks; Computer Conferencing; Software Marketing  
REVISION DATE: 960530

...current VP of technology for Netscape Communications designed a mouse-driven World Wide Web (Web) browser while working for the National Center for Supercomputing Applications. In 1993, about two million users...

...Navigator as its first product. Netscape Navigator 2.0, the latest release of the Mosaic browser originated by NCSA, will include secure e-mail send/receive, intuitive access to Usenet news and chat groups, and functions for viewing multimedia applications written in Java , a Web programming language.

**11/8,K/77 (Item 4 from file: 256)**

DIALOG(R)File 256:(c)1999 INFO.SOURCES INC. All rts. reserv.

00083783 DOCUMENT TYPE: Review

**PRODUCT NAMES: Netscape Navigator (530883); HotJava (563251); WebSpace (563269)**

**TITLE: Publish to the Web....: HTML Trends: What's Next on the Web?**  
Oct 10, 1995

DESCRIPTORS: HTML; Electronic Publishing; Program Development Aids; Virtual Reality; EFT (Electronic Funds Transfer); Internet Utilities; IBM PC & Compatibles; Computer Conferencing; Public Networks; VRML; Internet Browsers; Web Page Design; Navigator  
REVISION DATE: 990823

**TITLE: Publish to the Web....: HTML Trends: What's Next on the Web?**

Netscape Communications' Navigator browser has its own proprietary HTML extensions that add support for fonts, colors, and special effects. Sun Microsystems' HotJava, based on their Java language, uses small programs that are downloaded by the client software as needed. The small...

...interactive experience. From Silicon Graphics, WebSpace is a Virtual Reality Modeling Language (VRML)-based Web browser . It runs on multiple platforms, and lets users move around a virtual scene over the...

...sees the credit card number, and authorization can be returned within 10 seconds. Worlds' Worlds Chat is a 3D online chat environment.

DESCRIPTORS: HTML ; Electronic Publishing; Program Development Aids;  
Virtual Reality; EFT (Electronic Funds Transfer); Internet Utilities;  
IBM PC...

11/8,K/78 (Item 1 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

02004734 SUPPLIER NUMBER: 18867935 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**A virtual evolution. (VRML) (includes related articles on upstart OLiVR technology, VRML resources) (Technology Information)**

Dec, 1996

WORD COUNT: 2632 LINE COUNT: 00213

SPECIAL FEATURES: illustration; other

DESCRIPTORS: Technology Development; VRML; Virtual Reality Technology;  
Technology Overview

FILE SEGMENT: CD File 275

...ABSTRACT: powerful multimedia PCs and faster connections are available. VRML is essentially a 3D equivalent to HTML and is already used for interactive gaming. A VRML page has boundaries defined by the author and can be viewed and manipulated with a specialized browser ; objects in the world can become hot links to other 'places' in it, other worlds or basic HTML pages. There are two versions of the VRML 2.0 specification: Moving Worlds, supported by...

... Net

The Virtual Reality Markup Language (VRML), which is basically a 3-D equivalent to HTML , is where three-dimensional gaming on the Web began. Although there are alternatives out there...

...page is actually its own little world with boundaries defined by the author. A VRML browser allows you to move into and through this world, see objects, manipulate their views, and...

...as hot links to other places in that world, other VRML worlds, or a basic HTML page.

While that may sound pretty nifty by itself, the real thrill comes when software...

...aren't 3-D. Time Warner, for example, offers a site called The Palace ([http:// www .thepalace.com](http://www.thepalace.com)), and while it resembles a 3-D environment, it's actually just a...

...software, AlphaWorld ushers users into a fairly convincing 3-D simulation environment, complete with independent chatting avatars. Because it doesn't rely on the limitations of VRML 2.0, AlphaWorld provides

...

...t view any of it without a proprietary client--even if you have a VRML browser .

As far as true 3-D goes, there's Black Sun Interactive; this company pioneered three-dimensional chatting environments on the Web using standard VRML. You'll need Black Sun's proprietary browser , CyberGate, but it's available as a free download. CyberGate connects with the Black Sun CyberHub, which is the software that adds interactive chat capabilities to regular VRML environments. Black Sun's approach is the way most industry observers...

...behind Moving Worlds are SGI, Netscape, and Sun; the latter has integrated it with the Java development environment. This integration enables Java Applets to create 3-D motion effects and include greater interactivity. Moving Worlds also supports...depending on where you are in relation to the train. (Cosmo, SGI's Moving Worlds browser and development environment, also has this capability, but it's one of the few that...

...VRML: You've either got to get a VRML plug-in or a whole separate browser. What's important here is more than just the client interface. Without a solid development...it claims that this solution is superior for adding 3-D animated images to standard HTML pages, as well as for creating VRML-type worlds.

OLiVR (OnLine Virtual Reality) is an...

...can check into the OLiVR Production Tool Kit on the company's Web site ([http:// www .olivr.com](http://www.olivr.com)). The commercial edition of this tool is expected to cost \$495, and the...

...cost about \$2,500.

Related article: VRML Resources

Worlds' AlphaWorld 3-D interactive environment:

[http:// www .worlds.net/alphaworld](http://www.worlds.net/alphaworld)

Black Sun's Web site:

[http:// www .blacksun.com](http://www.blacksun.com)

The San Diego Supercomputer Center's VRML Repositor:

<http://sdsc.edu/vrml>

Information on Netscape and its Live3D technology:

[http:// www .netscape.com](http://www.netscape.com)

Information on ActiveVRML and ActiveX:

[http:// www .microsoft.com](http://www.microsoft.com)

The Moving Worlds initiative and the Cosmo VRML 2.0 browser :

[http:// www .sgi.com](http://www.sgi.com)

The straight scoop on everything to do with VRML:

<http://vag.vrml.org>

Midlevel VRML authoring tools:

[http:// www .virtus.com](http://www.virtus.com)

High-end VRML authoring products:

[http:// www .vream.com](http://www.vream.com)

11/8,K/79 (Item 2 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01996457 SUPPLIER NUMBER: 18794727 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ActiveX won't break the Web's commitment to open standards. (the Web browser feud between Microsoft and Netscape) (Hot Off the Wire)**

**(Internet/Web/Online Service Information)(Column)**

Nov, 1996

WORD COUNT: 1505 LINE COUNT: 00124

SPECIAL FEATURES: illustration; other

COMPANY NAMES: Microsoft Corp.--Standards; Netscape Communications Corp.

--Standards; Sun Microsystems Inc.--Standards

DESCRIPTORS: Internet/Web Technology; Internet/Web Overview; Web Browser;

Open System; Standard; Application Programming Interface; Reusable Code

SIC CODES: 7372 Prepackaged software

TICKER SYMBOLS: MSFT; NSCP; SUNW

FILE SEGMENT: CD File 275

**ActiveX won't break the Web's commitment to open standards. (the Web browser feud between Microsoft and Netscape) (Hot Off the Wire)**

**(Internet/Web/Online Service Information) (Column)**

...ABSTRACT: Microsoft and Netscape to move ActiveX to other platforms or to jointly support a better Java -based component model. Microsoft's intention in moving ActiveX to the Internet is to allow...

...downloaded from the Web on the fly. The controls can be written in Visual C++, Java or some other language, and developers can use several ActiveX controls to create applets, which gives ActiveX an advantage over plug-ins and pure Java applets, according to proponents. The threat of ActiveX may lead to development of a workable Java component model. Sun Microsystems' JavaSoft Div is developing the JavaBeans API, which the company claims...

... company's feud with Netscape. Remond's push for Internet Explorer 3.0 makes prior browser battles pale in comparison, and the ease with which Windows developers can use ActiveX technologies...

...furiously leapfrogging each other's capabilities. Consider Microsoft's nearly simultaneous announcement of support for Java and ActiveX in Internet Explorer 3.0, or Netscape's cross-platform stance on Java compared with its Navigator-specific LiveConnect initiative to tie together Java applets and proprietary plug-ins.

When it comes to open standards, both of these big...

...these wishes eventually--whether by moving ActiveX to other platforms, or by embracing some superior Java -based component model. Even if a single company ends up in the online-standards driver...

...inside Internet Explorer. To get a feel for what's out there, check out [http:// www .microsoft.com/activex/ controls](http://www.microsoft.com/activex/controls). If you prefer Navigator for Windows 95 or NT, you need Ncompass's ActiveX plug-in ([http:// www .ncompass.com](http://www.ncompass.com)).

ActiveX controls can be written in any language, including Visual C++ or Java itself. Proponents of ActiveX say one of its advantages over a plug-in or a pure Java applet is that developers can use multiple ActiveX controls to build applets: For instance, a developer can write an applet in Java that calls on a prefab ActiveX toolbar written for Windows. And since you can already...

...developers will make an easy transition to using ActiveX on the Web.

"(Previously,) you had Java applets, but no way for them to talk to each other," says Mike Templeton, president...

...to create sample ActiveX sites, such as The Nature Conservancy of Washington's site ([http:// www . tnc-washington.microsoft.com](http://www.tnc-washington.microsoft.com)).

"(Now) I can assemble a lot of ActiveX controls and glue...

...pieces are marketable and reusable in infinite ways.

Patrick Naughton of StarWave, a coauthor of Java who uses the language almost exclusively to publish and enliven his mega-popular ESPN SportsZone site ([http://espnnet. sportszone.com](http://espnnet.sportszone.com)), envisions ActiveX and Java working in harmony. "Java is a programming language in which you can write ActiveX objects," he says. "Or conversely, you can write code which uses ActiveX objects even if they're not written in Java. ActiveX is a perfect fit for what Java calls an interface object."

According to Naughton, "The worst thing Microsoft could have done is extend AWT (its Abstract Windowing Toolkit, a baseline set of graphical features for Java) to its logical conclusion, which is a bunch of Microsoft-centric classes. Instead, they created an automatic translation between Java and ActiveX objects. Developers have to make a conscious decision when to call ActiveX objects. (It) seems reasonable to me."

As Java purists point out, even if developers use Java to write ActiveX controls, currently those controls are platform-specific, because the architecture itself will...

...independent standards body, in the hope of solidifying a cross-platform solution.

#### Component Alternatives

Perhaps Java would have progressed independently of Microsoft, but thanks at least in part to the specter of ActiveX, the quest for a workable Java component model has kicked into high gear.

For instance, Sun's JavaSoft division was shooting...

...will run on all the component architectures," claims JavaSoft director of communications George Paolini. If Java prevails in the future, he adds, then developers can still use the same JavaBeans components...

...the Web. For example, Borland has announced that its forthcoming Latte visual development environment for Java will support both ActiveX and its own Java component model called the Borland Architecture for Java Applications (BAJA). Thanks to an agreement with JavaSoft, BAJA will lay the foundation for, and...

...Vermont, group product manager for Latte.

Security is another point of contention between ActiveX and Java-based solutions. Although Java is reportedly not flawless in this area, Java applets are generally downloaded and run without direct interaction with the operating system. Native Windows...

...to verify authentic ActiveX control providers.

Until JavaBeans or BAJA arrives, writing ActiveX controls in Java gives you the best of both worlds, says Nova Spivak, executive vice president of EarthWeb LLC, a Web consulting group whose Gamelan site (<http://www.gamelan.com>) serves as a central repository for Java applets and information. At press time, Gamelan launched an area for Java developers interested in writing ActiveX controls in Java.

#### To Be Had By All

Get two people in a chat room, and they'll have different ideas about when and how the Microsoft/ Netscape browser battle will end. StarWave's Naughton says, "If ActiveX becomes popular, (Netscape) will support it..."

...of today, a good Web site requires at least two versions for plain and fancy browser users. Furthermore, as he points out, content developers face not only a disparity between browser brands and system platforms, but also between different versions of the same browser.

Seen in this light, deciding whether to use ActiveX is no more insidious than choosing...

...DESCRIPTORS: Web Browser ;

11/8,K/80 (Item 3 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01996448 SUPPLIER NUMBER: 18794718 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The Hard Edge. (includes the Hard Edge Mailbag) (Column)**

Nov, 1996

WORD COUNT: 4645 LINE COUNT: 00337

FILE SEGMENT: CD File 275

... around in--Mosaic? AOL 3.0? Why not get a decent ISP and the latest browser to lead the debate, instead of hulking in some foolish chat forum with a bunch of hate-filled AOL subscribers who don't know how to...a place he considers chronically evil. Motor Trend magazine opened up a Web page (<http://www.motortrend.com>), and the only thing Bill relates to as well as computers is cars...magazine is for. If you could print it out, it really would be superfluous. The WWW version is meant to be viewed on the WWW ; the whole point of the Web is to offer things that extend print media."



Bill...

...at a loss with that type of reasoning--aside from the small fact that the WWW is an artificial construct. What would extend print media better than to be able to...

...save the page, but by similar reasoning, that too should be an impossibility.

Every Web browser Bill has seen thus far has included Save and Print functions. Would any programmer go...

...so as not to allow full access to its contents by all of the available browser facilities seems almost mean-spirited.

Maybe Bill is right about the Internet being evil. Maybe...how Vireo's VtoolsD can become a developer's best friend, and Rich Dragan touts Java as the language of choice for writing ActiveX controls. Stan Veit wonders what ever happened...

11/8,K/81 (Item 4 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01992896 SUPPLIER NUMBER: 18712870 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Browsers at the crossroads. (comparison of Netscape Navigator 3.0 and Microsoft Internet Explorer 3.0) (includes related articles on the next generation of browsers, and the Editors' Choice) (Software Review) (Cover Story) (Evaluation)**

Oct 22, 1996

WORD COUNT: 9398 LINE COUNT: 00765

SPECIAL FEATURES: illustration; table; graph

COMPANY NAMES: Microsoft Corp.--Products; Netscape Communications Corp.--Products

DESCRIPTORS: Web Browser; Software Multiproduct Review

SIC CODES: 7372 Prepackaged software

TICKER SYMBOLS: MSFT; NSCP

TRADE NAMES: Netscape Navigator 3.0 (Web browser)--Evaluation; Microsoft Internet Explorer 3.0 (Web browser)--Evaluation

FILE SEGMENT: CD File 275

ABSTRACT: Netscape Navigator 3.0 and Microsoft Internet Explorer 3.0 now dominate the Web browser market. Navigator continues to dominate and define the market, but Explorer copies most of its...

...at \$49, but Explorer is usually available for free. The choice is difficult, but the browser that dominates the market will set the standards for the Web and determine how it...

TEXT:

Netscape Navigator 3.0 defines the browser . Microsoft Internet Explorer 3.0 clones its features and adds significant new technology. The winner...

... quickly come down to a duel. Of the 30 products covered in our last Web browser review ("Just Browsing," March 12, 1996), only two seem to matter anymore. Netscape Navigator remains...

...with Web browsing. It defines the Web's de facto standards for HyperText Markup Language ( HTML ), graphics, plug-ins, Java , and scripting. Almost all Web content that isn't vanilla is flavored for use with...

...mail and news.

Microsoft Internet Explorer 3.0 is the first version of Microsoft's browser that is truly competitive. The new Windows 95 and Windows NT releases not only match up well with Netscape's HTML , plug-ins, Java environment, and scripting standards; they also add support for ActiveX, a

technology for bringing Windows...

...Netscape's offerings in collaboration tools, multimedia, VRML, mail, and news. Microsoft is giving its browser and development tools away for free (Netscape Navigator sells for \$49) and has concluded aggressive...

...Explorer's market share hovers around 10 percent, but it is sure to grow.

Which browser should you use? The choice may seem trivial, but it has enormous implications. The company that dominates the browser market will dictate online standards and change the way we use the Web.

To help...

...user, the Webmaster, and the applications developer. We also look at the performance of each browser's HTML -and graphics-rendering engine, test each browser's collaboration tools, and compare the pair's respective mail and news features. A companion piece in this issue, "Java Speed Trials," gives detailed test results involving both browsers' Java environments.

Given that Internet Explorer comes out ahead in many of these comparisons, you may...

...superior product, however, and Netscape will have to work hard to keep its lead. Neither browser displays the kind of rock-solid stability we expect from other software, a legacy of...

...Netscape Navigator browsers. These features cover almost every aspect of content delivery.

Netscape extensions to HTML are widely used by page designers who want better formatting control and more display options than what vanilla HTML provides. Plug-ins, another important Netscape standard, give vendors a way to add almost any conceivable functionality to the Navigator browser --everything from streaming audio broadcasts to multimedia. JavaScript, Netscape's widely used scripting language, gives...

...programs into their pages. JavaScript can be used to manipulate programmable elements of the Netscape browser and the documents it displays.

With the exception of the Netscape HTML extensions, none of these technologies are true standards, and many are undocumented. These proprietary technologies...

...problems soon. But until then, it's hard to recommend Internet Explorer as your sole browser.

Internet Explorer also offers more than its share of original new technology. Most of this...

...already widely supported by third-party programming tools.

ActiveX competes with both plug-ins and Java in the sense that it can be downloaded on the fly to add rich functionality to the browser. It is also complementary with both in that ActiveX, Java, and plug-ins can be used within Internet Explorer as components to build total solutions...

...developers (in 32-bit Windows environments), this represents a very compelling approach.

Both browsers support Java applets and provide Java just-in-time (JIT) compilers for accelerating Java execution. This support cements Java's position as a central Web development tool. Overall, Microsoft's Java environment is more stable and far ...distance charges). They also offer whiteboard modules for free-form group brainstorming and text-based chat modules for real-time group discussions. Internet Explorer's collaboration suite also includes a powerful...

...competition between Microsoft and Netscape heats up, one certainty is that each vendor sees its browser as the key to implementing its vision for the Web. The contest to deliver the fastest, richest, most stable, and

most compatible browser can only benefit Web users.

Web Browser Features That Drive The Web

WEB NAVIGATION has only gotten easier, thanks to both browsers...

...out ahead on interface customization, while Netscape Navigator offers better options for low-bandwidth users.

HTML standards drive the look of the Web. Internet Explorer's adoption of the powerful Cascading...

...goes one step further with ActiveMovie, a native video playback module that handles multiple formats.

JAVA AND PLUG-INS remain the accepted standards for extending browser functionality. Both browsers support them, although Internet Explorer's plug-in support is less than...

...ActiveX technology is a powerful alternative.

COLLABORATION TOOLS, including an Internet telephone, remote whiteboard, and chat, are standard features of both browsers. Internet Explorer also offers application sharing, a powerful feature...

...the Internet than either one can alone. But if you're limited to a single browser, Netscape Navigator 3.0, the world's most popular and influential browser application, is still the best choice. Too many Web sites are optimized for Navigator plug...

...Explorer 3.0 has yet to go. Navigator's newly introduced LiveConnect standard, which integrates Java, JavaScript, and plug-ins, will be particularly attractive to Web developers who want to reach the largest possible audience on all platforms. Its topflight HTML-rendering performance and flexible options for low-bandwidth use deliver your pages more quickly at...

...the near future include support for rich style sheets, better stability and speed in its Java environment, and a substantially beefed-up collaboration suite.

Internet Explorer 3.0 will wake up...

...customizable user interface, easy navigation features, and powerful collaboration tools. Webmasters will appreciate its strong HTML implementation and welcome its pioneering adoption of HTML Cascading Style Sheets, a powerful feature based on a proposed W3C standard that brings basic...

...standard already widely supported by third-party control and tool vendors. Microsoft's integration of Java, JavaScript, and plug-ins into the ActiveX model is particularly impressive. Java developers will welcome Internet Explorer's well-tuned Java virtual machine, the fastest currently available.

The strikes against Internet Explorer are incompatibilities in its...

...deficiencies--and it has committed itself to doing so--Internet Explorer will be a tough browser to beat.

The true winner of the browser wars is the one who uses both Netscape Navigator 3.0 and Microsoft Internet

Our...

...Both browsers' interfaces stand up well to intense scrutiny.

Thanks to NCSA Mosaic, the Web browser pioneer, today's browsers have ingeniously simple interfaces and look more alike than different--at ...bookmarked pages since you last visited them. You can import bookmarks into Navigator from any HTML file, and you can insert separators between bookmark entries to help make long lists more...

...link on a page. For its part, Netscape has added backward/forward navigation to the browser pane's right-click menu, letting you jump from page to page without having to...

...levels. Self-imposed ratings may not provide an ideal solution, but you can configure the browser to block any site that has not been rated. More generally, Internet Explorer supports the...

...has been downloaded.

Both browsers give you the ability to view VRML files within the browser window. Microsoft's viewer is licensed from Intervista Corp., and Netscape acquired its Live3D VRML...installation (8MB) includes mail and news clients (980K), NetMeeting (2.3MB), ActiveMovie (600K), and the HTML layout control (1.43MB). The "typical" version includes mail and news only, and the minimum version includes only the browser. The VRML control is a separate download (1.9MB).

All these downloads are self-extracting...

...and that hasn't kept the company from producing a very usable and capable Windows browser, too.

Related article: Due This Fall: The Next Browser Generation

-Amarendra Singh

Even as they ship final versions of Navigator 3.0 and Explorer 3.0, Netscape and Microsoft are hard at work on their next browser releases. Both may be available in beta as early as this fall. Microsoft provided us ...

...let us work with an alpha version. Netscape revealed less about Galileo, its next-generation browser, but gave us some indications of its design goals.

Galileo

Netscape's plans for Galileo...

...will extend encryption and authentication to e-mail. Netscape also plans to bring full WYSIWYG HTML editing capability to both its mail and news clients--no surprise, given the HTML viewing support already implemented in the Navigator 3.0 versions. Netscape also plans to integrate real-time chat and audio collaboration directly into the browser. The aim is to produce a client that brings Notes-like functionality to corporate intranets and public servers on the Web.

On the HTML front, Netscape has said that it will support stylesheets but has not indicated which implementation...

...any contrary move by Netscape will cause confusion. We can also expect to see additional HTML tags aimed at both page layout and object embedding. To counter the functionality provided by Microsoft's ActiveX controls and VBScript, Netscape will deliver additional Java classes and JavaScript enhancements.

Explorer 4.0

Rather than greatly expand the functionality of the browser itself, Microsoft's Internet Explorer 4.0 aims to integrate Internet and local content into...

...is a fusion of Windows Explorer and Internet Explorer that will give you a unified HTML-based view of the Web, your local system, and your network. Every view you now...

...or your hard disk. A right-hand panel of the Web view can contain an HTML frame with text based on standard templates describing the contents of a particular directory. This...

...s Web view of the Control Panel. The frame on the right shows an associated HTML help text.

In Internet Explorer 4.0, Web sites will be integrated into the same ...and easy to use.

WEBMASTER FEATURES

Both browsers are fine for conventional sites. But new HTML style-sheet standards are changing the face of page design--and only Internet Explorer currently...

...announces: "This site best viewed with Netscape Navigator." And with Netscape driving the development of HTML extensions, such as tables and frames, faster than the standards committees could keep up--and...

...0, not Netscape Navigator 3.0, now leads in implementing the most interesting and significant HTML extensions, the capabilities Webmasters will use to build the next generation of cutting-edge sites...

...multiple independent regions. More significantly, it supports Cascading Style Sheets (CSS) Level 1, a new HTML draft standard that gives Web designers unprecedented control over the typography and presentation of their pages.

#### Surf in Style

HTML was created to define the structure of a document, not the details of its presentation...

...as "this is a headline" or "this is a hyperlink," but it was the Web browser that would decide how actually to render this information on a user's screen. Although HTML has been extended with attributes that allow more control over the appearance of Web pages...

...And while it's possible to select type size in gross increments using plain-vanilla HTML, only CSS (and thus only Internet Explorer) currently allows specification of type size down to...

...other measures. (Navigator 3.0 supports the FACE attribute for the FONT tag, a Microsoft HTML extension that allows control over the typeface that the browser uses.)

Beyond the advantage of greater control over presentation, CSS gives Web authors three important benefits:

- \* Stylesheets allow style information to be kept in a separate file from the HTML document, making sites far easier to maintain. Multiple pages or even an entire site can...

...care, there's no need to design completely separate pages.

- \* With stylesheets, you can use HTML to create display elements, such as headlines, that have traditionally required the use of bulky...

...flows text automatically into multiple columns, with adjustable column width and inter-column spacing. (Traditionally, HTML authors have simulated columns by using tables, an awkward solution.) Additionally, Netscape's SPACER tag...

...of pixels.

#### Frames and tables

Frames, which let multiple panes of information occupy a single browser screen, have become a commonplace fixture on the Web. Both Navigator and Internet Explorer support...

...an incremental lead. Although the World Wide Web Consortium (W3C), which holds formal responsibility for HTML specifications, has not yet ratified a standard for tables, Internet Explorer is closer to supporting...minor plus. Both browsers support background sounds as well, each using its own syntax.

#### Basic HTML and Forms

Both Navigator and Internet Explorer feature strong compliance with HTML 2.0 standards, and perhaps not surprisingly, each browser also supports a handful of minor proprietary extensions. Internet Explorer can produce horizontal rules in...

...a built-in marquee control that can generate ticker tape-style scrolling text, as many Java applets do.

Netscape supports the BLINK tag, which simply causes text to flash--annoyingly, some...

...Feature for feature, Internet Explorer 3.0 has managed to match or exceed Navigator's HTML support in almost every significant area. While Netscape promises support for key enhancements, such as...

...are moving in fundamentally different directions.

-Thomas Mace

Web browsers have quickly evolved from simple HTML engines into full-fledged application platforms. The underpinnings of these platforms-- browser extension APIs, scripting languages, browser objects, and Java --let developers add rich custom functionality to what are otherwise lightweight, generic environments. In every area, from Web-based multimedia to intranet client/server applications development, the effect of the browser platform has been profound.

More than any other vendor, Netscape has pioneered the concept of the browser as an application host. The Netscape Navigator 3.0 platform consists of five basic elements: Navigator plug-ins, Java, JavaScript, Navigator browser objects, and LiveConnect, a set of browser services that can tie the other elements together.

Given Netscape's overwhelming market dominance, Microsoft...

...COM) that offers significant benefits to developers in 32-bit Windows environments.

Plug-ins and Java

The best-known Navigator extension standard is the Plug-in API, and some of the...

...While plug-ins have proved highly successful with developers, Netscape is moving toward Sun Microsystems' Java programming language as its core browser enhancement technology. Navigator 2.0 was the first major commercial browser to provide a Java virtual machine (VM), and Navigator 3.0 introduces a powerful Java enhancement, a just-in-time (JIT) compiler that compiles Java programs into faster native machine code on the fly.

Unlike plug-ins, Java applets are platform-independent. Java also offers a tight "sandbox" security model, letting the browser trap and disallow all memory- and file-access calls. Java has enormous potential for corporate developers who must deploy applications across multiple hardware and operating...

...Windows, Macintosh, and 11 Unix operating systems, is supremely well positioned as a cross-platform Java host.

Sadly, our tests of the Navigator Java VM (in the 32-bit Windows implementation) showed it to be buggy and on the slow side. In contrast, Internet Explorer's implementation of the Java VM and JIT is stable and fast. Interestingly, we found that neither browser is capable of supporting highly complex Java applications that employ with large data structures. (For a detailed look at all our Java test results, see "Java Speed Trials" in this issue.)

Scripting and browser objects

Netscape Navigator 3.0 provides a simple programming language and runtime environment called JavaScript, which despite its name bears almost no resemblance to Java. JavaScript code is transmitted to the browser in text form as part of the HTML page. You can use it to generate new HTML page elements on the fly, respond to user actions such as button clicks and check...offers comparable features, ease of use, and security.

One of the most powerful features of browser scripting languages is their use of browser objects, units of ready-made functionality that the browser exposes to the programmer. Navigator provides a comprehensive set of browser objects, many of which encapsulate the elements of HTML pages and forms. Text fields, buttons, radio buttons, and check boxes are among the most...

...encapsulate elements of Navigator itself. With a few annoying exceptions, Internet Explorer implements the Navigator browser objects and methods, and you work with them using either JScript or VBScript.

## Internet Explorer...

...as image, hot-spot, marquee, multimedia, and other controls, which can be put on your HTML page and manipulated using JScript or VBScript. Internet Explorer itself is programmable through its ActiveX interfaces, so developers can build fully customized browser containers.

More importantly, the ActiveX environment lets you add third-party ActiveX controls to your...

...spreadsheets to 3-D world viewers, and these controls largely surpass anything currently available for Java. Generally, these controls are far easier to integrate into applications than plug-ins or Java applets. ActiveX controls not originally built for Web use may be quite large, however.

### LiveConnect and Active Content

The biggest change that Navigator 3.0 brings to the Netscape browser platform is LiveConnect, a set of browser services for combining JavaScript, Java, plug-ins, and HTML objects into compound applications via a common object model, the Java Runtime Interface. LiveConnect programming is not trivial. Programmers must know the calling conventions of each...

...But LiveConnect is significant in allowing integration of robust elements written in C with the Java/JavaScript environment.

Internet Explorer provides a comparable environment, based on ActiveX, that unifies ActiveX controls, Java, plug-ins, HTML objects, and the two scripting languages. Under Internet Explorer, all Java applets are automatically wrapped in an ActiveX automation interface, making them full members of the...

...possible audience, your only real option today is the Netscape platform, with its plug-ins, Java, and JavaScript. Navigator's plug-in support is clearly more reliable than Internet Explorer's, while Internet Explorer offers a superior Java environment.

For corporate intranet applications, the choice is more complex. Neither browser has what it takes to support heavy-duty Java applications with large data structures. ActiveX and its related technologies are the most attractive option...

...only remaining option is to use Navigator plug-ins, possibly with the addition of lightweight Java applets and script. This somewhat retro solution is platform-dependent and lacks a clear upgrade path to Java or ActiveX. Today your choice of platform will involve compromises. We hope to see the next browser generation expand the options further.

### PERFORMANCE TESTS

Netscape Navigator renders most HTML pages faster than Internet Explorer over both LAN and modem connections. On some real-world...

### ...Seltzer

It's no shutout, but overall, Netscape Navigator 3.0 is faster at rendering HTML pages than Microsoft's Internet Explorer 3.0. Navigator's lead is most noticeable in...

...was also much faster at reloading pages from its cache. Over a modem connection, each browser led in some tests, but usually by an insignificant margin. These differences will be even...

...to load the complete page, and the time needed to reload the page from the browser's cache. We cleared the cache and restarted the browser between each test.

Instead of testing with real-world Web pages (which, at network speeds ...

...of 13 highly stressful synthetic pages.

The Formatted Text and Links page is a 570K HTML file containing

text and a large number of hyperlinks. Internet Explorer took consistently longer than...

...Graphics and Formatted Text I test document contains 480K of .GIF images and 37K of HTML . Again, Internet Explorer was slower. Over a modem, Internet Explorer also had more trouble than...

...The Graphics and Formatted Text II test document is smaller and contains both .GIFs and HTML . The Very ...contains fewer graphics than the previous two tests. Navigator was generally faster in both.

Our HTML Controls page is extremely stressful: It contains 100 buttons, 100 radio buttons, 100 check boxes...

...display the first element in just over 1 second.

Once Internet Explorer had loaded the HTML Controls page, we noticed that free Windows 95 user resources had dropped to 34 percent...

...boost from its inclusion in both Microsoft Internet Explorer and Netscape Navigator as a standard browser feature. On the surface, Internet Explorer's NetMeeting and Navigator's CoolTalk look quite similar ...is a fairly new concept. The gamut of collaboration modules includes whiteboard products, text-based chat windows, and file-transfer utilities. Most impressive are application-sharing programs, which let several users...

...party throughout.

Next to consider are the collaborative functions provided. Both products provide whiteboard and chat , but only NetMeeting offers application sharing and file transfer. Using NetMeeting, we were able to...

...and markings separately, so you can move them around without erasing. Differences between the products' chat utilities were much less significant, although NetMeeting has a slight edge. Overall, NetMeeting sets high...

...MAIL AND NEWS

Internet mail and Usenet news clients aren't the highlights of either browser . But they're well integrated, functional, and likely to get better. Here's what they...

...the Internet's two most widely used applications, Netscape Navigator 2.0 was the first browser to integrate Internet mail (POP3/SMTP) and Usenet news (NNTP) clients. Now, better late than never, Internet Explorer 3.0 brings mail and news capabilities to Microsoft's browser .

Neither company's offerings will take the place of full-featured Internet mail and news...

...in Navigator 3.0, although not significantly enhanced beyond the previous version, exhibit an intriguing HTML -centric conception that is not yet strongly implemented. Microsoft's clients push the envelope less...

...posts for specific groups.

Rich mail

Both Microsoft and Netscape say their mail clients support HTML , a somewhat vague and confusing claim. Navigator's mail client can view HTML attachments in-line with the actual message, but it cannot directly create HTML mail. Both packages can turn an embedded URL into an active link. Internet Explorer's client supports rich text, which it can convert to a basic HTML equivalent, but you can't insert images or use advanced HTML features.

Ultimately, the mail and news offerings from both companies fall short of the mark, while holding out the promise of something better. We'd like to see full HTML creation added to the Navigator clients' HTML -viewing capability. And we'd like to see Internet Explorer's weak HTML creation and rendering facilities beefed up to cover the full range of formatting possibilities.



DESCRIPTORS: Web Browser ;  
TRADE NAMES: Netscape Navigator 3.0 (Web browser )--...

...Microsoft Internet Explorer 3.0 (Web browser )--

11/8,K/82 (Item 5 from file: 275)  
DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01985450 SUPPLIER NUMBER: 18709494 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
What's happening on the Net and the commercial online services. (News  
Briefs)  
Oct, 1996  
WORD COUNT: 1546 LINE COUNT: 00124

FILE SEGMENT: CD File 275

... find time to write another column again. Seriously, for more  
information about emulators, visit [http:// www .mtsu.edu/ rim](http://www.mtsu.edu/rim)...

...0002/ c64/emulator.htm if you use Windows, or [http:// www .cs.csubak.  
edu/ jstiles/emulator/](http://www.cs.csubak.edu/jstiles/emulator/) if you prefer the Macintosh.

On the Net  
Of course...

...emulated PC platform to use Mercury Mail, a powerful and free news  
service. Simply visit [http:// www .merc.com](http://www.merc.com), fill out a user profile, and  
you'll start receiving a customized newspaper...

...on how to get out the vote. It's all in good fun at [http:// www  
.netparty96.com](http://www.netparty96.com).

If you're not looking forward to next month's vote, try the...

...to the days of Ronald Reagan and the Rubik's Cube. The '80s Server  
([http:// www .80s.com](http://www.80s.com)) pays homage to the above and to all else of that  
heady time...

...that challenges you to identify the decade's hits by listening to brief  
excerpts ([http:// www . 80s.com/Entertainment/Music/Rewind](http://www.80s.com/Entertainment/Music/Rewind)).

Children of the '90s may not appreciate that blast from the past, but  
Jitter--a Webzine for 13- to 19-year-olds featuring articles, chat rooms,  
polls, a sitcom, and other teen-specific content--should have more appeal.  
Savvy but...

...youth."

Also concerning kids, but probably more useful for adults, is  
Kidsdoctor, located at [http:// www . kidsdoctor.com](http://www.kidsdoctor.com). This site offers more  
than 200 child-related health topics on everything from...

...re looking for a cure for boredom, turn to the Riddle du Jour at [http://  
www .dujour.com](http://www.dujour.com). This site features three simple games each day--a riddle,  
a trivia question...

...several prizes. If you're not challenged here, try "Where's That From?"  
at [http:// www . intuitive.com/origins](http://www.intuitive.com/origins). In this online game, you're  
challenged to solve 10 word-origin...

...to believe.

For more action and interactivity, take a tour with National  
Geographic Online ([http:// www . nationalgeographic.com](http://www.nationalgeographic.com)). The site features  
in-depth online tours, including an interactive expedition in search...

...get your head out of the sand and consider raising ostriches: Ostriches  
On Line ([http:// www .achiever.com/ostrich/index.htm](http://www.achiever.com/ostrich/index.htm)) claims to be "the  
premiere Internet information center for all...

...the mood for some part-time pleasure with a literary bent? Check out eSCENE ([http:// www .etext.org/Zines/eScene/](http://www.etext.org/Zines/eScene/)), an anthology of the best short fiction published online. Although most...for beginning and intermediate Netizens (from "Mind Your Manners Online" to "Can a Nonprogrammer Learn Java ?"). Prodigy calls it a "virtual survival guide," but don't hold that against it--check...

...If you're not a Prodigy member, you can't access interactive features such as chats and file libraries, but you can still read the articles. To see Living Digital, go to LIVING DIGITAL or set your browser to [livingdigital.prodigy.com](http://livingdigital.prodigy.com).

11/8,K/83 (Item 6 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01985449 SUPPLIER NUMBER: 18709493 (USE FORMAT 7 OR 9 FOR FULL TEXT)

CompuServe's Web strategy is good news for both sides of the Internet gateway. (Hot Off the Wire) (Company Business and Marketing)

Oct, 1996

WORD COUNT: 1465 LINE COUNT: 00120

COMPANY NAMES: CompuServe Inc.--Services

DESCRIPTORS: Company Services; Company Internet Strategy

SIC CODES: 7375 Information retrieval services

TICKER SYMBOLS: CSRV

FILE SEGMENT: CD File 275

...ABSTRACT: with Microsoft to create a new Web strategy built around Microsoft's Internet Explorer (IE) browser . IE will now be CompuServe's default access software and will work with Normandy, a...

...aimed at online services and ISPs. CompuServe's CIS 3.0 software is a dual HTML /HMI viewer seamlessly incorporating Internet Explorer 2.0 with CompuServe's proprietary Host Micro Interface format. What's New and many other service areas come up a HTML pages, although a few pages are still ASCII in the beta version. CIS says it...

... Warner, plans to give CompuServe members free access to its forthcoming Pathfinder Personal Edition ([http:// www .pathfinder.com](http://www.pathfinder.com)).

If all goes as planned, CompuServe will become an aggregation of Internet content...

...the gateway.

Parallelisms

Last June, CompuServe allied itself with Microsoft to use the Internet Explorer browser in its access software and to deploy the forthcoming Normandy suite of add-ons for...

...release by year's end, Normandy is aimed at ISPs and online services, and includes chat , mail, messaging, security, directory, and personalization services. CompuServe will be the first online service other ...

...Normandy.

In the simplest terms, the new CompuServe CIS 3.0 software is a dual HTML /HMI viewer--it seamlessly incorporates Internet Explorer 2.0 with CompuServe's proprietary Host Micro...

...software.

But other areas of the service, such as What's New, come up as HTML pages, with URLs appearing in the Page window when you click on menu options or...

...get just the traditional dialog boxes and static "enhanced" menu graphics. According to CompuServe, the browser will always view the Web version when given the choice.

Not surprisingly, the company claims...

...alliances via Virtual Key with entertainment and educational companies such as the Discovery Channel ([http:// www .discovery.com](http://www.discovery.com)), longtime CompuServe entertainment source eDrive (<http:// www .edrive.com>), and National Geographic (<http:// www .nationalgeographic.com>). Other partners may include information retrieval and research companies such as Information Access Co. (<http:// www .iacnet.com>) and Infonautics (<http:// www .infonautics.com>), which already offers Prodigy members a discount for its Homework Helper service; travel services such as Travelocity (<http:// www .travelocity.com>); and publishers such as The Wall Street Journal Interactive Edition (<http:// www .wsj.com>). Many of these talks are only in preliminary stages, so the final spectrum...

...and Internet Explorer 2.0 (and soon 3.0) available at CompuServe's Website (<http:// www .compuserve.com/ rpa/software.htm>), you'll soon be able to access Web-enabled CompuServe...with HTTP, and the service probably will move to Microsoft's passphrase scheme for news, chat , and e-mail in the coming months.

The other challenge CompuServe faces in going "open..."

...along with access to livelier, more exciting content from providers freed to use the latest Java and ActiveX development tools. Think of it as building a better Web.

11/8,K/84 (Item 7 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01973679 SUPPLIER NUMBER: 18481440

**Client/server moves to the 'net. (client/server architectures on Internet)  
(includes related article on use of Java with databases)  
(Internet/Web/Online Service Information)**

August, 1996

WORD COUNT: 3109 LINE COUNT: 00255

DESCRIPTORS: Internet/Web Technology; Client/Server Architecture;  
Software Architecture  
FILE SEGMENT: CD File 275

**...moves to the 'net. (client/server architectures on Internet) (includes  
related article on use of Java with databases) (Internet/Web/Online  
Service Information)**

...ABSTRACT: that run on both client and server are being developed to enable Internet commerce. The Java language takes advantage of the fact that the Net is highly distributed. Microsoft, abruptly reversing...

...to respond to the Internet by releasing new Internet Assistant programs that convert documents to HTML and creating development tools that allow applications to be Web-enabled. Other firms providing Internet...

... use this expensive technology to create closer relationships to my customers and find new models chat lower the cost of doing business?"

Some answers are found by returning to the earliest...

...connection is open to anyone. And anyone can be secure and use rapidly created applications chat change dynamically in response to evolving conditions.

The key to this change is, of course...

...early, open commercial step toward winning the confidence of the general public for electronic commerce.

#### JAVA AND JAVASCRIPT

Like a nova bursting across the night sky, a new language called Java has swept aside competition in the race to create a standard programming facility for the World Wide Web. Sun Microsystems initially created the project that resulted in Java in the hopes of developing a set-top cable television box. That market, into which...

...millions of dollars over the last seven years, is still somewhere out in the future. Java is probably the only commercial product to come out of those years of research.

Java exploded out of Sun's labs so quickly that even now, only a few months...

...000 copies of new titles to bookstores, shipped 20,000 copies of its first advanced Java programming book--and it sold out almost immediately.

What is most amazing is that Java has achieved this unprecedented level of acceptance while still being an incredibly hard to learn...

...was no such limitation?

JavaSoft, Sun's new subsidiary created to develop, manage, and market Java, has proposed a new API: Java Database Connectivity (JDBC). JDBC will allow Java applications to access any back-end database in the same way as ODBC. In fact...

...drivers (with a small bridge driver connecting JDBC to ODBC). (For more on JDBC, see "Java Does it for Databases, Too.")

OLD 'SOFT-Y

As late as the end of last...

...releasing Internet Assistants for all office components that convert spreadsheets, databases, documents, and graphics to HTML;

- \* purchasing Vermeer Technology for its FrontPage HTML editor;
- \* releasing Internet Information Server at no cost;
- \* announcing an end-to-end electronic commerce...

...support 'Net components and releasing a set of basic ActiveX components (such as Winsock, ftp, HTML and Network News Transport Protocol (NNTP));

- \* adding support to Visual C++ via five new...

...Web pages;

\* releasing VBScript, a freely available, multiplatform, lightweight version of Visual Basic; and;

\* licensing Java, plus a Java development environment (Jakarta), and, plans to include the Java Virtual Machine in future ...a cross-platform, multidatabase, object-oriented system. It automatically converts screens, forms, and tables into HTML, and generates the required Common Gateway Interface (CGI) scripts. The included Personal Web Server allows...

...the end of 1996) would allow us to run a thin client that runs a Java applet. So, if we need to upgrade the application, we upgrade the server, not the...

...eponymous software, released late in 1995, allows enterprise developers to create dynamically partitioned applications so that developers can tune deployment needs among client machines and any number of appropriately powered and located servers. To add 'Net access via any browser, the company recently announced the Forte Web Server software development kit.

In April, TI released...

...Air Canada, says, "We are committed to delivering strong support to our customers and believe that WebCenter will allow us to significantly improve the quality and speed of our customer service in a very short

time." WebCenter provides browser clients with a live 'Net page with dynamic content rather than a display of static...

...set of prebuilt components and WebScript. This version can be downloaded for free from <http://www.next.com>. WebObjects Pro adds the ability to incorporate C, C++, and Objective C code...and security issues. Applications created with this tool are entirely server-based. In the end, HTML pages are created and accessed by browser clients. The developer product runs on Windows 95, Windows NT, and Solaris (see Figure 2...

...Web server to the report server, corporations can make predefined report formats accessible to any browser client. The Actuate Viewer Plug-in adds searching and help capability, table of contents, and...

...queries to corporate databases, schedule them for execution, and publish them on Web servers in HTML or Portable Document Format.

When discussing decision support, Online Analytical Processing (OLAP) isn't far...

...CA) have announced server-based Web interfaces for their OLAP servers. Users with only a browser on their desktop can use MicroStrategy's DSS Web to connect to DSS Server and...

...Arbor plans a similar gateway for its Essbase OLAP server. And both plan to integrate Java applets into their systems.

READY FOR WHAT COMES NEXT

The history of technology has taught...

...are still out over the event horizon.

(Figure 1 to 2 ILLUSTRATION OMITTED)

RELATED ARTICLE: Java Does it for Databases, Too

Java is an object-oriented programming language closely modeled on C++. The main differences between the...

...or otherwise, neither language has native support for databases--unlike Visual Basic and Delphi. Initial Java applets were much like a tic-tac-toe game, animation, and other visually interesting contexts in that they lacked persistent data storage.

In order to make Java useful for corporate development, the JavaSoft team has proposed the JavaSoft Database Connectivity (JDBC) API...

...connectivity modules. This allows programmers to write to a single database interface, enables DBMS-independent Java application development tools and products, and allows database connectivity vendors to provide a variety of different connectivity solutions."

JDBC is organized like other Java subsystems (see figure)--such as the I/O and the language and graphics subsystems--as...

...anticipates that the three-tier architecture will be very common. In using such a scheme, Java applications make calls to a service layer on the network whose internals handle accessing the...

11/8,K/85 (Item 8 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01969347 SUPPLIER NUMBER: 18589910

1,001 free downloads: September update. (software applications available for downloading) (includes related article on Macromedia's and Netscape's plug-ins) (News Briefs)

Sep, 1996

WORD COUNT: 1035 LINE COUNT: 00088

SPECIAL FEATURES: illustration; other

FILE SEGMENT: CD File 275

... Internet Explorer 3.0  
 Try Microsoft's all-new Internet Explorer 3.0. It handles HTML 3.2 and borderless frames, and it lets you open Microsoft document's from within the browser .  
 File: MSIE30B1.EXE  
 Size/Time\*: 2864K/11 minutes  
 Map This  
 Spruce up your Web page...

...creating image maps quickly and easily with Map This. It supports CERN, NCSA, and CSIM/ HTML data formats, and handles GIF and JPG files too.  
 File: MTBETAR5.EXE  
 Size/Time\*: 902K...

...ZIP, UU, UUE, and HQX file formats.  
 File: SITEX10.EXE  
 Size/Time\*: 346K/2 minutes  
 Java Support for Explorer 3.0  
 Is your Web browser Java -enabled? Once you've downloaded your free copy of Internet Explorer 3.0, check out Microsoft's Java Support for Explorer 3.0 to enliven your Web experience.  
 File: IE30JAVA.EXE Size/Time...download times are cited at 28.8Kbps; actual times vary. All files are available at www .pccomputing.com.  
 How to Get It All  
 Get all 1,001 free downloads plus live links to all the sites in Inter.net at WWW .PCCOMPUTING.COM  
 Package Deals: Everything in One Place  
 Macromedia Shockwave  
 To experience the interactivity of...

...for Director, Shockwave for FreeHand, and Shockwave for Authorware. Use them from within your Web browser to enjoy interactive multimedia created in any of these Macromedia products.  
 File: N32Z0003.EXE Size/Time\*: 2475K/12 minutes  
 Netscape Power Pack 2.0  
 Upgrade your bare-bones Netscape Navigator browser with Netscape Power Pack 2.0. Power Pack includes a virus scanner, a spell-checker, a site-monitoring utility, and a chat feature. If you're using Navigator or Navigator Gold, you'll want Power Pack.  
 File...

...net is edited by Rich Schwerin. Links to all Free Hits downloads are available at www .pccomputing.com. Contributors: ED BOTT, ADAM MEYERSON (Free Hits), and RON WHITE.  
 Send Internet secrets...

...Schwerin@zd.com.  
 Java Station  
 You've undoubtedly heard the buzz about Java . Now create some Java applets of your own with Scott Kaufman's Java Station. If you're using Sun Microsystems' Java Development Kit, Java Station lets you compile and edit Java text files.  
 File: JAVAS99D.ZIP Size/Time\*: 150K/1 minute

11/8,K/86 (Item 9 from file: 275)  
 DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01961581 SUPPLIER NUMBER: 18486374 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The Internet access dilemma. (11 TCP/IP software products) (Software Review) (Evaluation)**  
 July, 1996  
 WORD COUNT: 5684 LINE COUNT: 00474

SPECIAL FEATURES: illustration; table  
 COMPANY NAMES: NetManage Inc.--Products; James River Group Inc.--Products  
 ; FTP Software Inc.--Products; Attachmate Corp.--Products; Century  
 Software Inc. (Salt Lake City, Utah)--Products; Esker Inc.--Products;  
 Novell Inc.--Products; SunSoft Inc.--Products; International Business  
 Machines Corp.--Products; Frontier Technologies Corp.--Products;  
 Microsoft Corp.--Products  
 DESCRIPTORS: Network Software; Software Multiproduct Review; Terminal  
 Emulation Software; Operating System; Protocol Gateway Software; Internet  
 Access Software  
 SIC CODES: 7372 Prepackaged software  
 TICKER SYMBOLS: NETM; FTPS; NOVL; IBM; MSFT  
 TRADE NAMES: NetManage Chameleon32NFS/NT 5.0 (Network software)--  
 Evaluation; ICE.TCP (Network software)--Evaluation; LAN WorkPlace 5.0  
 (Network software)--Evaluation; Tun Plus 8.0 (Network software)--  
 Evaluation; SuperTCP Suite 96 for Windows (Network software)--Evaluation;  
 OnNet (Protocol gateway software)--Evaluation; PC-NFSpro for Windows  
 (Protocol gateway software)--Evaluation; IBM Internet Connection  
 (Internet access software)--Evaluation; Emissary 1.1 (Internet access  
 software)--Evaluation; TinyTerm Plus (Terminal emulation software)--  
 Evaluation; Microsoft Windows NT (Operating system)--Evaluation  
 FILE SEGMENT: CD File 275

... access a wide range of information and services using TCP/IP.  
 Features include an Internet browser , terminal emulators, ftp file  
 transfer, network file sharing, R-commands, e-mail, enterprise printing  
 capabilities...and functionality. Chameleon is bundled with an impressive  
 set of utilities and applications, including Internet Browser , Internet  
 Relay Chat (for Internet discussions), Talk (for one-on-one, real-time  
 Internet communications), Web Server, and...

...for the price. Sun's experience with TCP/IP shows in this product. With  
 Hot Java applications on the horizon, Sun's PC-NFS Pro is well positioned  
 to ride the...support CSLIP, which is useful for bandwidth utilization. The  
 product comes with a powerful Web browser and pointers to thousands of  
 Web locations.

A mail package lets you exchange private e...  
 ...changes or additions; it also supports bulletins. First Floor integrates  
 with the Internet Connection Web browser ; it is an essential Internet  
 time-saver--and a good buy.

#### TINYTERM PRO

Century Software...suite provides numerous features for connecting to  
 and accessing the Internet. For example, the SuperTCP Browser supports  
 World Wide Web, Gopher+, Archie, Veronica, Jughead, WAIS, and CSO Internet  
 protocols. Multiple sessions...

11/8,K/87 (Item 10 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01958623 SUPPLIER NUMBER: 18442751 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The browser battle rages on. (Microsoft Internet Explorer 3.0 vs. Netscape  
 Navigator 3.0) (Software Review) (Evaluation)**

August, 1996

WORD COUNT: 1281 LINE COUNT: 00110

SPECIAL FEATURES: illustration; other  
 COMPANY NAMES: Microsoft Corp.--Products; Netscape Communications Corp.--  
 Products  
 DESCRIPTORS: Software Multiproduct Review; Web Browser  
 SIC CODES: 7372 Prepackaged software  
 TICKER SYMBOLS: MSFT; NSCP  
 TRADE NAMES: Netscape Navigator 3.0 (Web browser)--Evaluation; Microsoft

Internet Explorer 3.0 (Web browser)--Evaluation  
FILE SEGMENT: CD File 275

**The browser battle rages on. (Microsoft Internet Explorer 3.0 vs. Netscape Navigator 3.0) (Software Review...**

...ABSTRACT: fierce competitive war to take market share from Netscape Communications, which currently leads the Web- browser market by an overwhelming margin. Both Microsoft's free Internet Explorer 3.0 and Netscape...

...that provides two-way audio communication and whiteboard conferencing tools as well as a text chat mode. There are some welcome interface enhancements, such as a redesigned Bookmarks menu and an...

...usable interface. The final version will support ActiveX applets as well as plug-ins and Java , but few sites currently use them.

... sites for downloading Internet Explorer 3.0, check out PC Computing's Web page at [www .pccomputing.com](http://www.pccomputing.com).

Cost: Free

Microsoft

(800) 426-9400

Navigator 3.0 \*\*\*\*\*

Verdict: The best browser keeps getting better.

Pros: Built-in support for streaming audio and video, Java , and VRML, plus hooks for hundreds of free plug-ins. New CoolTalk utility includes a Net phone with data-sharing and text- chat features.

Cons: The \$49 price is reasonable, but Microsoft's Internet Explorer 3.0 is...

...best sites for downloading Navigator 3.0, check out PC Computing's Web page at [www .pccomputing.com](http://www.pccomputing.com).

Cost: \$49 est. street price

Netscape Communications

(415) 937-3777

Isn't competition great? With giants Netscape and Microsoft openly battling to build the best Web browser , the rest of us only stand to come out ahead. In the latest round of...

...will present a serious challenge to Netscape in the future. For now, however, the top browser is still Netscape's--barely.

Refined and Reliable

Netscape had something to prove about reliability...

...communication, CoolTalk provides competent software and data-sharing (whiteboarding) tools, as well as a text- chat feature.

There are two significant advances in Navigator 3.0 that won't be readily...

...to most users, but they could improve the Internet experience. For example, Netscape reworked its Java and JavaScript support for greater reliability and wider compatibility. Even better, the company added an object-integration framework, called LiveConnect, that allows live objects such as Java applets, JavaScripts, and plug-ins to interact and synchronize with one another.

Navigator 3.0...

...Frame navigation, including support for the Back button within a frame. There are also new HTML tags like background colors for tables, and new attributes for embedding audio and video.

Serious...

...called version 4.0. That's no accident: Netscape has a significant lead in the browser world, with 75 percent market share, and Microsoft is the only company with any real...



...These enhancements add up to an extremely usable application--and usability is where Microsoft's browser skips ahead of Navigator.

#### Top Performer

Internet Explorer 3.0 brings a raft of features...the major features that Microsoft announced for Internet Explorer 3.0, such as support for Java and third-party plug-ins, weren't operational in the prerelease version we tested but...

...events, automatic event-launchers, and 3-D animation. ActiveX components will work in concert with Java applications. In theory ActiveX is a boon, but we'll reserve final judgment until we've seen it fully applied.

#### Close Choice

Until now Netscape's Navigator has dominated the browser market. With version 3.0 of Internet Explorer, however, Microsoft poses a serious threat to...

...content. If either LiveConnect or ActiveX builds serious support, people will want to use the browser that best supports the prevailing standard. But for now, the lead is still Netscape's.

...DESCRIPTORS: Web Browser

TRADE NAMES: Netscape Navigator 3.0 (Web browser)--...

...Microsoft Internet Explorer 3.0 (Web browser)--

11/8,K/88 (Item 11 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01958407 SUPPLIER NUMBER: 18494887 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Como Adds Chatting.**

July 18, 1996

WORD COUNT: 84 LINE COUNT: 00009

FILE SEGMENT: NW File 649

#### TEXT:

The Como system now supports moderated chat events for the Web. Como consists of a server program that runs on the Web server and a number of Java Applets that can be included in Web pages, including chat, voting and surveys, shared whiteboard, games, and more. To use the new chat applet, which won a \$75,000 prize at Sun's Java Cup, users require a browser with Java support. Current Version: 1.0 Supported OS: Java Software Type: free World Wide Web: [http:// www .comopro.com/](http://www.comopro.com/)

11/8,K/89 (Item 12 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01947606 SUPPLIER NUMBER: 18380872 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Floppy flip-flop. (includes related articles on net tools, cheat codes and patches) (Just do it: Tips & tools) (Question and Answer)**

July, 1996

WORD COUNT: 1411 LINE COUNT: 00113

FILE SEGMENT: CD File 275

... AOL toolbar and provides customizable buttons and controls for handy functions such as a Power Chat window, Power Instant Messaging, Power Searching, Auto Sign On, and Action Recorder. For more information, go to BPS Software's Web site at [www .bpssoft.com](http://www.bpssoft.com).

Q: I can't read the buttons on the Windows 95 Taskbar when...

...A: Yes, but your computer will need some help too. The Switchboard Web

site at [www .switchboard.com](http://www.switchboard.com) provides a free directory of addresses and telephone numbers. For a more full...

...calling the various information numbers. For more details go to the PC411 Web site at [www .pc411.com](http://www.pc411.com).

Q: I want to upgrade to Windows 95, but I also want to...  
...maintains your connection by automatically contacting the ISP at intervals you designate. Download it from [www .cris.com/ randybrg/filez/ponger32.zip](http://www.cris.com/randybrg/filez/ponger32.zip).

Related article: Net Tools

Get the latest world and...

...headlines. For more information about this free service, go to PointCast's Web site at [www .pointcast.com](http://www.pointcast.com).

\* Infomarket NewsTicker: IBM's free service scrolls headlines across your screen. If a...

...catches your attention, click on it to bring up the details. Download the program from [www .infomkt.ibm.com/ht3/ticker.htm](http://www.infomkt.ibm.com/ht3/ticker.htm).

Stock Tickers

Whether you're playing the Dow, watching...

...the nation's economy. Try some of these savvy stock tickers.

\* WinStock: Shareware, available from [www .teleport.com/ magoldsm/winstock](http://www.teleport.com/magoldsm/winstock).

\* Quote Ticker Bar: Shareware, available from [www .connix.com/ randy/qtb/qtb. html](http://www.connix.com/randy/qtb/qtb.html) .

\* Personal Stock Monitor: Shareware, available from [tucows.niia.net/files/psml0.zip](http://tucows.niia.net/files/psml0.zip).

Related article: Cheat...

...Jim

Available for Win 95; \$49.95; from Activision; (800) 477-3650, (310) 479-5644; [www .activision.com](http://www.activision.com).

Even the slickest superheroes need a little guidance when running, jumping, and sliming...

...2.0

The rumors are true. There are security issues with Netscape 2.0's Java implementation. For the patch and more information, stop by [home.netscape.com/comprod/mirror/ java -patch-download. html](http://home.netscape.com/comprod/mirror/java-patch-download.html) .

Netscape Power Pack

If you think there aren't enough features packed into Netscape's browser , here are five more components you can add: Adobe's Acrobat Reader, Apple's QuickTime, Netscape's Smart Marks (for bookmarking) and Netscape Chat , and Symantec's Norton AntiVirus. Take a look at [home.netscape.com/comprod/power--pack--summary. html](http://home.netscape.com/comprod/power--pack--summary.html) .

3-D Explorer for Windows 95

We've all seen movies in which people travel...

...real time and even includes sound effects. Get the details at Regnoc's Web site: [www .regnoc.com/d3d--info.htm](http://www.regnoc.com/d3d--info.htm).

Eight-Player Patch for Hexen

The rule when playing Hexen...

...joystick controls. Snare the patch at the Raven Software Web site, [204.246.1.60/ html /hexen.htm](http://204.246.1.60/html/hexen.htm), and good luck with the Seven Portals!

11/8,K/90 (Item 13 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01942114 SUPPLIER NUMBER: 18343699 (USE FORMAT 7 OR 9 FOR FULL TEXT)

These are the headlines and first paragraphs of each story, in order:.

May 30, 1996

WORD COUNT: 1856 LINE COUNT: 00157

FILE SEGMENT: NW File 649

TEXT:

...global Internet including: your own personal radio station; Australian SunSITE launched; Russia Today; compendium of HTML elements; nothing but shareware; news from the IESG; CERT security advisory issued; across America - Maryland...

... than comparable services offered by AT&T, MCI, and Sprint.

6. Mitsubishi First To Add Java To Chip -- REPEAT/ Mitsubishi Electronics America's Electronic Device Group announced it has ported the Java programming language to silicon. Mitsubishi claims to be the first to embed Java in a hardware device, and could lead the way to consumer based Java products.

7. Yahoo Web Guide Expands To Europe -- REPEAT/Yahoo Inc., (NASDAQ: YHOO) and the...

...this year, with the rest of Europe to follow in 1997.

8. Microsoft To Include Browser In OS, Says Gates -- REPEAT/Microsoft is now readying a VR (virtual reality)-oriented chat capability called "Comic Chat" for release soon, revealed Microsoft chairman and chief executive officer Bill Gates, in a talk...

...0 to its Web site yesterday, and holds future plans that include a built-in browser for its operating systems (OS), Gates told the audience in the filled-to-capacity room...an Internet/intranet server-centered search system called, InterInfo Re-Search Service. Using the popular Java Internet programming language, InterInfo shifts standard searching operations to a specialized server.

33. Novell Brings Java To NetWare Developers -- As a result of a licensing agreement with Sun Microsystems two months ago, Novell says it will deliver NetWare Software Development Kit for the Java Platform in a beta version this fall. The new kit will allow developers to create Java applications for Novell's network operating system, NetWare. (Wendy Woods/19960530)

11/8,K/91 (Item 14 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01940509 SUPPLIER NUMBER: 18283302 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**How do I write a chat program? (Java Q&A) (Technology Tutorial) (Column) (Tutorial)**

June, 1996

WORD COUNT: 1719 LINE COUNT: 00133

SPECIAL FEATURES: illustration; chart; program

DESCRIPTORS: Java; Programming Tutorial

FILE SEGMENT: CD File 275

**How do I write a chat program? (Java Q&A) (Technology Tutorial) (Column) (Tutorial)**

ABSTRACT: Chat programs enable simultaneous communication between users over a network. Text entered into a chat window is broadcast to all users logged on to the program. Earlier chat programs merely offered text, but newer versions are able to handle graphics. Chat programs generally have chat "rooms" for private communications. Java now makes it possible for chat programs to be hosted on a Web site and downloaded for use at the click...

...This eliminates the need to purchase and install a particular application. There are two basic chat architectures, peer-to-peer and client/server. Peer-to-peer programs do not require server programs, but

they are more difficult to implement. A client/server program needs a chat "server" application that functions as a routing center for chat sessions. The typical server application runs on a Unix Web server.

#### TEXT:

Chat programs allow people to communicate simultaneously across a network. Everything you type into a chat window is broadcast to the screens of all other users currently logged into the program. Chat programs originated with simple text-only capabilities (like the UNIX talk program) and have evolved into elaborate graphical environments. Unfortunately, everyone who wants to "chat" has had to obtain and install compatible chat programs. Java solves this problem by making it possible for chat programs to be hosted on a Web site and downloaded for execution with the click...

Chat programs are genuinely useful. Many chat programs allow discussions to be saved in a log file, as a record of points made or decisions reached (or jokes told). In short, chat programs are fun, but they can also be used to do real work. We've used a chat program to coordinate the activities of software developers separated by continents, and without adding a cent to our phone bill! (One relative of mine even uses a chat program to communicate with family in Rangoon.)

Real chat programs have features such as private chat "rooms," special identities, and so on. I'll ignore these embellishments to demonstrate the fundamental techniques.

The two basic chat architectures are peer-to-peer and client/server. A peer-to-peer design requires no server program, but is far more complex to implement. A client/server design requires a chat "server" program that serves as a switchboard or data-routing center for all ongoing chat sessions.

In this case, the server program runs on a UNIX Web server, since this is the typical configuration. The java chat program can then be hosted on a Web page on the server machine, with the chat program server running on the same machine. In essence, to make this work, you need:

- \* A chat server program.
- \* A Java chat client program.
- \* An HTML page that loads the Java chat client program.

When someone goes to the HTML page that has the java chat client on it, the Java client is automatically fetched and run on the user's machine. The client program will then set up a communication session with the chat server program, which must be running all the time on the Web server. Once the session is established, users can then join any ongoing chat session.

Figure 1 illustrates the basic architecture of the system. All data (keystrokes) entered by...

...which then rebroadcasts the data to all clients. It is conceptually simple, and thanks to Java's streamlined communications-programming classes, is surprisingly straightforward to implement.

There is a hitch: Most Web servers still do not have java available on them, and Java is needed to run the server component if it, too, is in java. Therefore, we'll write the server in C++, and the client in Java. You can then put the client on a Web page: The Web server does not need to understand java to host Web pages with Java on them. The only thing that is required is that the client platform (typically Netscape) be able to run Java.

#### The Java Client

The chat client has three main classes: ServerChat, UserChat, and Chat, the last of which is an applet class that instantiates the other two. ServerChat, a...

...thread. This is good because its main job is to monitor the connection with the chat server program across the network and handle asynchronous incoming data from the server. UserChat, on...

...the communication line.

The most complex part of the program is the ServerChat class. Yet Java makes even this component easy to write compared to an equivalent

program in C. You...

...extends the `TextArea` class, so it inherits all of the behavior and features of a Java `TextArea`, which is a scrollable text window. Data retrieved from the server is displayed in...

...in which there is no data to read. It returns any retrieved data as a java string value.

The `UserChat` class also extends from `TextArea`. Thus, user input is entered into...

...insertText() on the `UserChat` window instead.

`UserChat` has one primary method, `write()`. it converts a java string to an equivalent stream of ASCII bytes, sending them to the server on the socket's output stream.

The `Chat` class has a constructor and three primary methods in addition to a main method for...

...The three methods are `init()`, `make-Connection()`, and `handleEvent()`. `init()` establishes a connection with the chat server program on the Web server by calling `makeConnection()`. if it succeeds, it then starts the `ServerChat` thread.

Java has built-in support for TCP/IP. This is implemented in the `Socket` and related...keystroke is inserted into the `UserChat` text area, and the keystroke is forwarded to the chat server program for rebroadcast to all other listening chat clients.

`handleEvent()` must have some special code to work around a bug in the Java toolkit. The period character (".") does not generate a KEY...

...RELEASE is generated.) A practical chat program will also handle backspacing (this one does not) and multiple-character events (the key...

...events will always bubble up to the applet that owns them.

The Server Program

Because Java has yet to be supported on most Web servers, we will provide a C++ implementation of a chat server program. (We used the gcc GNU C++ compiler.) The program must be running to...  
...program on your own machine.

It is interesting to compare the C++ program with the java program. While they do different things, they are not too different in the functions they perform. However, the Java program is easier to read and understand.

The Applet HTML

To use the chat program, all you need to do is go to a Web page that hosts the client on a server running the chat server. Example 1 is the HTML code the Web page should contain. The (Text Chat Applet Would Run Here) is for those forlorn surfers who do not have a Java-capable browser. They will see this message, and dream about all the applets that they are missing. If you can run Java, you will see the chat applet with its two text area windows. For the browser to find the chat clients Java classes, the classes merely need be in the same directory on the server as the HTML page. Otherwise, you will have to include a `codebase` parameter in the applet tag specifying the directory or URL where the classes are to be found.

The Java client and C++ server source code is available electronically; see "Availability," page 3. Source code for a more advanced chat program, "Whiteboard," is available at ([http:// www.digitalfocus.com/ddj/code/](http://www.digitalfocus.com/ddj/code/)). It uses the same principles to implement a graphical whiteboard that many people across the Internet can draw on simultaneously.

```
< html ><head><title> Chat Client</title></head><body
bgcolor="#-ffffff">
  <applet code=" Chat .class" width=600 height=400> <h2>(Text Chat
Applet Would Run Here)</h2> </applet>
</body></ html >
```

DESCRIPTORS: Java ;

11/8,K/92 (Item 15 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01939733 SUPPLIER NUMBER: 18313699 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Adapting to the Web. (overview of evaluations of five online services)  
(individual evaluation records searchable under "Adapting to the  
Web") (includes related articles on the editors' choice, the  
suitability-to-task boxes, the services' Internet connections, AOL's  
Global Network Navigator, CompuServe's SpryNet, a cost comparison, failed  
online services, Microsoft Network's Web site, avatars and virtual  
worlds, and Prodigy's Web sites) (Information Service  
Review) (Evaluation) (Cover Story)

June 11, 1996

WORD COUNT: 5306 LINE COUNT: 00416

SPECIAL FEATURES: illustration; table

COMPANY NAMES: America Online Inc.--Services; CompuServe Inc.--Services;  
Prodigy Services Co.--Services; Microsoft Corp.--Services

DESCRIPTORS: Online Information Service Review; Internet Service Provider

SIC CODES: 7379 Computer related services, not elsewhere classified

TICKER SYMBOLS: AMER; MSFT

TRADE NAMES: America Online (Online information service)--Evaluation;

Prodigy (Online information service)--Evaluation; Microsoft Network  
(Online information service)--Evaluation; CompuServe (Online information  
service)--Evaluation; Wow (Online information service)--Evaluation

FILE SEGMENT: CD File 275

...ABSTRACT: service providers (ISP). All five services provide full  
access to the Web and offer Web browser software. AOL and CompuServe will  
soon offer Microsoft Internet Explorer, and Prodigy is expected to offer  
Netscape Navigator soon; WOW! provides a simplified browser based on  
Microsoft Internet Explorer 2.0. A good online service makes it easier to

...  
... services reviewed here give you full access to the World Wide Web  
and include the browser software needed to view Web pages. Ideally, you  
want your service to provide a free, state-of-the-art Web browser and  
other tools such as a news reader, FTP, and telnet clients. You also want  
...

...Prodigy should offer Netscape Navigator as its default. WOW! will  
continue to offer its simplified browser based on Microsoft Internet  
Explorer 2.0 (for a look at the Internet access tools...

...membership interact. These include secure e-mail, threaded discussion  
forums, moderated threaded discussions, and live chat facilities. On the  
cutting edge, CompuServe and MSN offer avatar-based live chat where users  
move through a virtual 3-D world as animated figures.

While all of...

...shield members from the free-for-all flaming that characterizes Internet  
news groups and IRC chat.

Connection Considerations

Even in the age of the Internet, you still need to consider some...and  
support progressive bitmap rendering?

Community

We rate e-mail, group discussion facilities, real-time chat, and 3-D  
avatar-based chat. Does the e-mail interface make it easy to perform  
standard mail-management tasks, add...

...selection of special-interest groups, with threaded, easy-to-navigate  
discussion. Is the real-time chat interface easy to use? Are chat

forums lively and is there a good selection of topics? Are unmonitored chat forums and 3-D avatar-based chat offered?

Content

How broad and deep are the special interest areas, proprietary libraries, and name...

...Internet access

We evaluate everything connected with Web and Internet access. We rate the supplied browser software and check whether third-party browsers and other Winsock tools are supported. Do you...

...the service and the Web? Can you post your own home page and are usable HTML authoring tools provided?

Suitability to Task: Product name

	Power	Ease
Connectivity and navigating	Poor	Poor...

...By Tom Giebel

Each online service in this roundup provides Internet access and a Web browser as part of the basic package. We found lots of variation in browser quality, access to newsgroups, supplied utilities such as news readers and FTP, and even in...

...the time this story appears, AOL and possibly Prodigy will also let you use any browser you wish. A flurry of recent browser deals will also mean new default browsers for AOL, CompuServe and possibly Prodigy by the ...

...toward Web-access tools that equal the state of the art.

America Online

The default browser supplied by America Online provides the least attractive Web-page rendering of all the online...

...other features commonplace elsewhere. Savvy users can download a Winsock to use a different Web browser, but everyone else will have to wait for the ink to dry on AOL's agreement with Microsoft to bundle Internet Explorer as the default browser. AOL does provide a sophisticated news reader and access to all Usenet newsgroups. Members can...

...an animated Gopher client. 28.8-Kbps access is widely available.

CompuServe

The Spy Mosaic browser supplied by CompuServe is a bit behind the times: its lack of support for tables means many Web pages will look odd. Thankfully you can use any Web browser instead. CompuServe has also recently announced a deal with Microsoft to make Internet Explorer its future bundled browser. Access numbers for 28.8-Kbps service are widely available.

Accessing a Web site from...

...Microsoft Network

Many MSN users will use Microsoft Internet Explorer 2.0 as their default browser although you can use any Winsock-compatible browser instead. Internet Explorer is fast, stable, and easy to use. Version 2.0 lacks some...

...this story appears Internet Explorer 3.0 may be available with state-of-the art Java, Netscape plug-in, and frame support. Internet Explorer is available as a free download from...

...95 or third-party telnet and FTP utilities.

Prodigy

Prodigy offers a fairly sophisticated Web browser which supports most of the advanced formatting features you're likely to see on better-designed Web pages. Tables, backgrounds, transparent .GIFs, and client-side image maps are supported. The browser is updated with new features frequently, and can be updated automatically when you log on...

...ll find on Prodigy is labeled "Prodigy created Web site" and is viewed through the browser . Unfortunately the Web browser closes and re-opens as you jump from site to site. Prodigy offers access to all the Usenet newsgroups.

WOW! from CompuServe

WOW!'s built-in browser is based on Microsoft Internet Explorer version 2.0, which supports tables, backgrounds, font attributes, and other advanced HTML features but not Java or plug-ins. CompuServe plans to offer upgrades to the browser with selected plug-ins already installed. Power users can add helper applications, but only if the application includes its own install feature. The browser 's setup and configuration menus are all hidden from the user.

WOW!'s non-standard...

...the Web. WOW! offers access to FTP sites and Usenet newsgroups only through the Web browser . Internet access is through CompuServe's physical infrastructure.

Related article: AOL's Global Network Navigator...

...a standard SpryNet account permits only up to 5MB on the server.

GNN's Web browser , GNNworks, supports HTML 2.0 and some 3.0 features. It has the usual navigation controls as well as a toolbar which integrates e-mail, newsgroup, chat , gopher, and FTP buttons. The e-mail client is easy to use and supports file...

...in the future.

Future GNN plans to lure new members include offering Netscape's Navigator browser and bundling more utilities, such as an Internet phone and a Virtual Places 3-D chat utility.--PB

Related article: SpryNet: The Internet from CompuServe

If you're more interested in...things about SpryNet; you will probably not want to use the limited Spry Mosaic Web browser included in the bundle.

If you're using Windows 95, you'll also have to...

...for doing this can be found on SpryNet's threaded message support forum at [http:// www .sprynet.com](http://www.sprynet.com), a Web site which also includes detailed service information, a search facility, and...

...been conceived. Today, the AT&T Business Network is a fee-based Web site ([http:// www .att.com](http://www.att.com)).

GEnie and Delphi are two other services struggling in the shadow of the...

...what Delphi was meant to be, including news, special interest areas, bulletin boards, and even chat ([http:// www .iguide.com/](http://www.iguide.com/)).

GEnie, now in its eleventh year, is a traditional online service in the plans to move fully onto the Web. Its Web site ([http:// www .genie.com/](http://www.genie.com/)) provides both content and details about the service.

Related article: MSN's Outpost on the Web

MSN's Web site ([http:// www .msn.com](http://www.msn.com)) is a frontier outpost for MSN's coming migration to the Web. It...

...Web will be worth visiting.

Related article: Avatars and Virtual Worlds: The State of the Chat  
Chatting with strangers online has been popular since the mainframe days. Avatar chats, which take...

...dimension. An avatar is an image that represents you in the virtual world where the chat takes place. As you explore the virtual landscape, you see other avatars and talk to...

...talk about.

There are two avatar chats available on the online services: MSN's V-Chat and CompuServe's WorldsAway. Other avatar chat packages have cropped up on the Internet, including WorldsChat and AlphaWorld, both from Worlds Inc. (AlphaWorld is in beta and did not run reliably enough to



test). Each chat world has its own character and strengths, but WorldsAway may hold your interest the longest.

V- Chat

V- Chat is basically an extension of the old text-based chat metaphor through avatars. It provides a 3-D environment that you can explore, and you...

...hear background sounds, but you can't interact with your environment in any way. V- Chat 's avatars can flirt, smile, wave, make silly gestures, and more. But they don't walk and move normally; they float.

Also, V- Chat forces you to use your MSN ID--which is often your first and last name--as your handle, which can spoil the fantasy. V- Chat 's best feature is the ability to create custom avatars and upload them to the server so others can see them. If you've enabled access to MSN's Adult Chat , you can even upload a risque avatar for yourself.

WorldsAway

CompuServe's WorldsAway, with its...

...find all the surprises, there's not much to keep your interest but plain-old chat .

Related article: Prodigy's Multiple Web Presences

Prodigy currently has three presences on the Web. The Prodigy site ([http:// www .prodigy.com](http://www.prodigy.com)) is little more than an extended advertisement for the proprietary online service. The...

...Access Net Direct was announced just as we were completing this evaluation. Accessible at [http:// www .and.net](http://www.and.net), the new service is most interesting in its pricing scheme: a flat rate...

11/8,K/93 (Item 16 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01936681 SUPPLIER NUMBER: 18288950 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Enter the Internet in only a minute. (Quarterdeck InternetSuite 2.0)**

**(Software Review) (Evaluation)**

June, 1996

WORD COUNT: 983 LINE COUNT: 00083

SPECIAL FEATURES: illustration; table

COMPANY NAMES: Quarterdeck Corp.--Products

DESCRIPTORS: Internet Access Software; Software Single Product Review

SIC CODES: 7372 Prepackaged software

TRADE NAMES: Quarterdeck InternetSuite 2.0 (Internet access software)--  
Evaluation

FILE SEGMENT: CD File 275

...ABSTRACT: tools for Internet access, including a painless configuration program, a version of the Mosaic Web browser , the Quarterdeck Message Center and FTP applications, and new capabilities such as the Global Chat utility. The program makes connections easy and has a Connect and Play feature for those...

...Mosaic lacks many of the advanced features found in Netscape Navigator 2.0, such as Java and frame support, and the FTP front end shows the directory structure of the host...

... free for 90 days; paid support plans available thereafter;

CompuServe; e-mail: [support@quarterdeck.com](mailto:support@quarterdeck.com); WWW :

[http:// www .quarterdeck.com](http://www.quarterdeck.com)

Requires: 8MB RAM recommended; 10MB hard drive space; Windows  
3.x or Windows...

...this ease-vs.-power trade-off is the archive window in the Quarterdeck Mosaic Web browser . This window has four tabs that speed access to navigation information buried in the menus...

...t support many advanced features found in Netscape Navigator 2.0, such as the Hot Java programming language and plug-in applets. Also missing is support for frames, which many innovative...

...incoming file. Either method is relatively clumsy.

New in this upgrade is the easy Global Chat utility for Internet Relay Chat (IRC). Perhaps not coincidentally, Quarterdeck includes a copy of a program called Cybersitter that lets parents block access to specific Internet resources, such as sexually explicit IRC chat rooms. InternetSuite also includes Adobe Acrobat Reader and the RealAudio program, which some Web sites...

11/8,K/94 (Item 17 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01932466 SUPPLIER NUMBER: 18256847 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Sneak Preview Of Interact '96 "Virtual Trade Show".**

April 10, 1996

WORD COUNT: 1008 LINE COUNT: 00083

FILE SEGMENT: NW File 649

TEXT:

...visit virtual booths, and to choose between "VRML (virtual reality mark-up language) or standard HTML (hypertext mark-up language) browsers," said sponsors of "the world's first virtual tradeshow," at...  
... the upcoming trade show's video presentations on the Interact '96 home page, at [http:// www .interact96.com](http://www.interact96.com) .

During a demo, Gossieaux accessed a video talk by Sun Microsystems' Eric Schmidt...

...April 23.

The virtual trade show booths will be visible to anyone using a VRML browser , as will Java chat rooms. Meetings with the avatars will be made possible by Black Sun's Cybergate technology...

...users with lower-end systems, and those who do not feel comfortable with VRML and Java yet, will be able to take part in the online event, too, through the use of a standard HTML browser . "We're even making transcripts of the conference sessions available in text form," Gossieaux said...

...of InfoWorld; Paul Gudonis, president and chief executive officer (CEO) of BBN Planet; Vania Joloboff, Java Program manager of the Open Software Foundation (OSF); Steven McGeady, VP and general manager of...

...office.

Visitors, he said, will be able to "meet" in a variety of kinds of chat rooms, including "discussion rooms" for technical topics; "partner chat rooms" that will be connected to vendors' booths; and "Q&A rooms" for Q&A...

11/8,K/95 (Item 18 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01929106 SUPPLIER NUMBER: 18204218 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Think medium, not software. (World Wide Web) (Internet**

April 8, 1996

WORD COUNT: 832 LINE COUNT: 00065

GEOGRAPHIC CODES: eb

DESCRIPTORS: Internet/Web Overview; Computer Software Industry  
SIC CODES: 7372 Prepackaged software  
FILE SEGMENT: CD File 275

... people really understand what's going on here.

The 75 percent

I recently had a chat at Netscape about the dominance of the company's Navigator browser . (To be fair, I was talking to server people and not those responsible for the Navigator software itself.) I pointed out that the use and almost continual addition of Netscape HTML extensions was problematic for content creators. The response was that Navigator had about 75 percent of the browser market, and that it was just like Windows, in the sense that content developers would...

...highest-end creation tool, and it integrates almost every aspect of Web content creation, from HTML editing to integration and development of Java applets. This suite for all occasions, a Swiss Army knife of tools, so to speak...

11/8,K/96 (Item 19 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01910267 SUPPLIER NUMBER: 18031787 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**News digest. (News Briefs)**

Jan, 1996

WORD COUNT: 1296 LINE COUNT: 00100

FILE SEGMENT: CD File 275

TEXT:

Better late than never: America Online announced it would support html 3.0, Netscape extensions, and Java . The Internet is slowly garnering the attention of aol users and accounts for 15 percent...

... on the Web, The New York Times launched a site (after a conspicuous absence) at www.nytimes.com. . . . After pulling the plug on TimesLink (its Prodigy content area) and downsizing its...

...Vermeer chief executive Charles Ferguson and his staff of 40 will move to Redmond . . . Shipped: Java 1.0 by JavaSoft ( Java 's newly monikered division, headed by ex-Delphi/News Corp. exec Alan Baratz). The software is available for free download at java.sun.com . . . The nfl, Microsoft, and nbc Sports brought the game online, featuring real-time game stats, chat , and the online Super Bowl shop at superbowl.com. nbc's Brobdignagian 46.1 average...

...blitz by giving away 80,000 cd-roms containing the Internet Explorer 2.0 Web browser to Super Bowl attendees. The site's \$150,000 maximum ad price was a bargain...

...the \$1.2 million price tag for a 30-second spot on nbc. Curiously, the chat engine used was Time Warner's The Palace, not Microsoft's V- chat .

Arts & Entertainment

Talent agencies have been busy this month . . . Creative Artists Agency, looking to post...

11/8,K/97 (Item 20 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01888656 SUPPLIER NUMBER: 17956842 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Is the Internet an application development revolution? Can the Web become the dominant operating platform? (Technology Information) (Editorial)**

Jan, 1996

WORD COUNT: 1017      LINE COUNT: 00082

DESCRIPTORS: Internet; Technology Development  
SIC CODES: 4822 Telegraph & other communications  
FILE SEGMENT: CD File 275

... initial public offering of stock suggests investors see a bright future for its Netscape Navigator browser . However, it may not be long before browsers as a separate product disappear, to be replaced by applications you build that include browser capabilities.

In a recent conversation, Mike Zisman, the new CEO of the Lotus division of IBM, shared this vision: "The browser is going to be so successful there won't be a browser --it will be part of the operating system. You'll have the ability to get...

...concept of accessing the Web integrated into all applications." (You can read more of my chat with Zisman and Jeff Papows in LOTUS NOTES ADVISOR, January/February 1996.)  
It turns out...

...in January, incorporates several Internet capabilities, allowing a Notes client to act as a Web browser , a Notes server to act as a Web gateway, a Notes document to become a...

...into a full application development and deployment environment in several ways, such as extending the HTML formatting language and incorporating Sun's Java development language. Netscape has teamed with MasterCard, IBM, GTE, and CyberCash to devise a security...

...and data we need will arrive via modem at ISDN or higher speeds. Even today HTML pages, CGI scripts, and Java programs can be handled by a variety of browsers and operating systems. Online applications use...

...Another Advisor Developers Conference is being planned. Get the latest from our Web site, [http:// www .advisor.com/](http://www.advisor.com/).

11/8,K/98      (Item 21 from file: 275)  
DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01887845      SUPPLIER NUMBER: 17986424      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Lack of standards proves no barrier to fledgling online 3-D  
developers.(Worlds Chat, others offer virtual-reality Web sites)(Hot Off  
The Wire) (Technology Information)**  
Feb, 1996  
WORD COUNT: 1525      LINE COUNT: 00119

DESCRIPTORS: World Wide Web; Technology Development; New Technique;  
Virtual Reality Technology  
FILE SEGMENT: CD File 275

**Lack of standards proves no barrier to fledgling online 3-D  
developers.(Worlds Chat , others offer virtual-reality Web sites)(Hot  
Off The Wire) (Technology Information)**

...ABSTRACT: using Virtual Reality Markup Language (VRML) despite a lack of standards. A free multiuser 3D chat service called Worlds Chat already lets users select an avatar and join a group of other avatars in a chat room. Each represents a person logging into the server from somewhere in the world; users can teleport between chat rooms and wander into groups of participants. Bandwidth tends to be a problem, with occasional...  
...but the system works smoothly over a LAN and even over 28.8Kbps modems. Worlds Chat currently uses proprietary technology but has its own VRML variation for multiuser support. Paper Software...

## TEXT:

...that defined Web-based multimedia for me was the first time I logged onto Worlds Chat , a free 3-D multiuser chat service on the Web. Worlds Chat 's realistic three-dimensional graphics hooked me the way the virtual landscapes and battlefields of...

Launched last spring, Worlds Chat greets you with a view of a 3-D room. Inanimate 3-D figurines of...

...these to be your avatar, and then join a group of other avatars in a chat room. Each avatar in the chat room represents a person who is logging onto the server from somewhere around the world...

...head. It's a unique way to meet people.

You can teleport between Worlds' several chat rooms, and then wander into groups of clustered participants to talk publicly or privately. While ...

...fellow players pointed out that they were using 28.8Kbps access quite happily.

While Worlds Chat currently uses a proprietary 3-D technology, it also has its own variation of VRML...

...come alive through links to other online multimedia enhancements, such as real-time video and Java scripts. This should spawn new forms of entertainment (and one must presume, advertising), and new...

...Graphics Software supports Silicon Graphics' Open Inventor file format directly in its Web Space Navigator browser . Though content developers get the benefit of additional features, callers can't view Open Inventor...

...online services about using its software to create a 3-D interface to that service's chat feature. Paper wouldn't name the service at press time.

"Worlds is trying to compete with the chat people, the online-service people, VR servers, and content providers," argues Paper's McCue. "We...

...we'll continue to create (our own) environments."

In addition to Worlds' forthcoming VRML Plus browser , which will work in conjunction with its current client software to view VRML content in...

...company says it will soon release an API for the non-VRML scheme of Worlds Chat and AlphaWorlds. This will allow third parties to create their own services and Worlds-like...

...is better. By the time you read this, Paper claims, Xpresso will let developers use Java and Microsoft's OCX to animate VRML scenes, and that you'll most likely get the Xpresso toolkit when you buy the final version of the WebFX browser . (The WebFX browser is due by the time you read this for about \$49).

By spring, Worlds says that its AlphaWorld service, a much-expanded takeoff on Worlds Chat that lets multiple users collaborate on building a 3-D city while socializing with each other, will enable content developers to create hotlinks to Java scripts and RealAudio files. At press time, the company revealed that it had agreements in...3-D acceleration features of its Edge board. The company also plans to bundle Worlds Chat with one of its boards.

Diamond believes that an increasing number of online 3-D...

...unaccelerated online 3-D can turn a no-fuss online user like me into a chat addict, then that may well turn out to be the understatement of the year.

11/8,K/99 (Item 22 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01872490 SUPPLIER NUMBER: 17610592 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PowWow, anyone? A Web chat that works.(Tribal Voice's PowWow Web browser,  
freeware application) (Product Announcement)**

Sep, 1995

WORD COUNT: 797 LINE COUNT: 00062

SPECIAL FEATURES: illustration; other  
COMPANY NAMES: Tribal Voice--Product introduction  
DESCRIPTORS: Internet Access Software; Networking Software Product  
Introduction  
SIC CODES: 7372 Prepackaged software  
TRADE NAMES: PowWow (Internet access software)--Design and construction  
FILE SEGMENT: CD File 275

**PowWow, anyone? A Web chat that works.(Tribal Voice's PowWow Web browser  
, freeware application) (Product Announcement)**

ABSTRACT: Tribal Voice introduces the PowWow browser freeware in an effort to compensate for the lack of interactivity of most chat utilities. PowWow is a Windows application that allows users to hold a conversation with other Web enthusiasts. The package can communicate with the most recent Netscape browser supporting DDE. Communications between Netscape and PowWow occur with Tribal Voice's directory of Web...

...users can talk simultaneously. Additionally, PowWow allows one user to take remote control of other chat group members' Netscape browsers, and direct them to a specific Web page. Unfortunately, PowWow's...

TEXT:

A Web Chat That Works  
... a project for you).  
Worse than Web-BBS schemes, though, are the current attempts at chat utilities. Typically, you post a message using a form, then the acknowledgement of your post...

...It's an unbelievable drinker of a hack, a sort of Web-IRC (Internet Relay Chat ) disaster complete with HyperText Markup Language ( HTML ).

At the same time, the impulse behind the various chat hacks (and quite a few of them are out there these days) is perfectly understandable  
...

...just publishes at each other.

Enter a great hack: A Windows program that lets you chat with other folks who are cruising the Web. Nothing fancy, just a utility that lets...

...s been done, you say. There's WinChat, for example. OK, but this new little chat utility, called PowWow (see figure), also knows how to whisper secret messages to your Netscape browser. It's not magic or rocket science although John McAfee, the anti-virus guru and organizer behind this new utility, did suggest in a recent chat that a little magic might indeed be involved (I think he was kidding). The most recent Netscape browser supports DDE--the conduit of communication between the two applications.

FOLLOW THE LEADER  
Communications between...

...to show you a really cool Web page, I simply go there with my Web browser and, presto, everyone else's browser goes there too.

How does it work? My browser talks to my copy of PowWow, then my PowWow talks to your PowWow, and finally...

...to do with the Web's latest revolution, Sun Microsystem's (Mountain View, CA) Hot Java browser and the Java application language, which can be used to build such small "applets."

Netscape Communications (Mountain View, CA) recently announced support for Java, so it really does seem like these things are all converging. And you can bet that Java 's a topic that's bound to come up again.

Robert Richardson (robert@fiction.com...

...conduct guided Web excursions. He's also Webmaster of LAN on the Web, at [http:// www .lanmag.com](http://www.lanmag.com).

11/8,K/100 (Item 23 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01870619 SUPPLIER NUMBER: 17807802

**Consummate Winsock apps.(reviews of seven Web browsers) (Software Review) (Evaluation)**

Nov, 1995

SPECIAL FEATURES: illustration; table

COMPANY NAMES: Sun Microsystems Inc.--Products; Microsoft Corp.--Products ; Netscape Communications Corp.--Products

DESCRIPTORS: Web Browser; Internet Access Software; Software Multiproduct Review

SIC CODES: 7372 Prepackaged software

TICKER SYMBOLS: SUNW; MSFT; NSCP

TRADE NAMES: HotJava (Web browser)--Evaluation; Netscape Chat (Web browser)--Evaluation; Microsoft Internet Explorer for Windows 95 (Internet access software)--Evaluation

FILE SEGMENT: CD File 275

...ABSTRACT: than other Web browsers among seven Winsock Internet applications reviewed. HotJava is an interesting Web browser that not only allows clients to download documents, sounds and images, but also small executable programs written in the Java programming language. Microsoft's Internet Explorer for Windows 95 is an excellent Web browser, particularly notable due to its speed. Internet Explorer also features client-side image mapping, global font sizing, centering, mail-to and FTP support, and transparent images. Netscape Communications' Netscape Chat is an accessory Internet Relay Client to Netscape Navigator, offering the ability to share Web information by allowing users to view and send URLs with other group members, and three chat communications modes.

DESCRIPTORS: Web Browser ;

TRADE NAMES: HotJava (Web browser )--...

...Netscape Chat (Web browser )--

11/8,K/101 (Item 24 from file: 275)

DIALOG(R)File 275:(c) 2000 The Gale Group. All rts. reserv.

01864425 SUPPLIER NUMBER: 17544782 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Java animates the Web with interactive content.(Hot off the Wire)**

**(Technology Information) (Column)**

Dec, 1995

WORD COUNT: 1444 LINE COUNT: 00115

DESCRIPTORS: Technology Development; World Wide Web; Programming Language ; New Technique

FILE SEGMENT: CD File 275

**Java animates the Web with interactive content. (Hot off the Wire)**  
**(Technology Information) (Column)**

ABSTRACT: Sun Microsystems' new Java programming language promises to add new interactive content to the World Wide Web by letting...

...create new applications for networked environments called 'applets' that can be launched by a Web browser. Applets can be embedded in documents as bits of executable code which download and run...

...and tools for enhancing documents with video, audio and animation. Numerous commercial development tools for Java will soon emerge. StarWave Corp already uses Java exclusively when developing content for its online services and writes its back ends in Java as well. Netscape Communications will support Java applets in future versions of its Navigator browser, but expresses skepticism about whether the technology will become a standard. Microsoft is also interested...

TEXT:

Like many frustrated Web users, I have no time to waste configuring my browser with multiple external viewers just so I can see good online content. I often ignore...

...need to do heavy-duty troubleshooting. However, a new programming language from Sun Microsystems called Java has the potential to supplant cumbersome viewers, and it may enable content that only proprietary...

Java was designed from the ground up for developers who want to create new applications for...

...these applets can be embedded in documents as bits of executable code that any compatible browser can launch either in a standalone window or right in the browser itself. An interpreter in the browser actually compiles the downloaded "bytecodes" on the fly into a form that your operating system understands. And by all indications, Java is poised to take off as fast as the original Mosaic. First, Sun freely distributes...

...own HotJava demo browsers for Windows NT/95 and Solaris on its Web site([http:// java .sun.com](http://java.sun.com)) for no charge. More important, though, the audience for Java applets may expand exponentially this month if Netscape Communications comes through with its planned release...

...all of which include the appropriate interpreters. Quarterdeck Office Systems is following suit with a Java-compatible Windows 95 browser early next year.

Rather than static text content, pages with Java applets feature dynamic applications that update on the fly based on changing conditions or user selections. For example, a Java applet might generate charts and redraw them based on parameters you select, or provide animation, video, and audio to enhance a particular document. What's more, Java is designed to be modular and extensible, so that developers can distribute updates that automatically...

...they don't have to worry about end users installing software anymore," says Kim Polese, Java product manager at Sun.

Sun plans to continue free distribution of its own developers' kit...

...major companies such as Eastman Kodak and Mitsubishi that are using or planning on using Java, Polese says that "big Wall Street brokerage houses" are interested in the programming language for...

...were still of the fluff variety. But Web content developers, such as StarWave Corp. ([http:// www .starwave.com](http://www.starwave.com)), launched by Microsoft cofounder Paul Allen, have ambitious plans. For example, Java coauthor Peter Naughton, now vice president of new technology at StarWave, says the company currently uses Java exclusively when developing content for its



online services. One application that's already live on...

...numbers on the Web page automatically display the latest information without user intervention.

Though using Java on the Web demands no changes on the server side of the equation, StarWave also writes its back-end programs in Java, including the real-time chat system, links to credit-card companies for transactions, and database features. Besides claiming that Java is a "superior programming language" in general, Naughton points out advantages to using Java on the server side: "Unlike C++, if you've got 10 Java features on your server, and one crashes, the rest of the features stay up," he...

...of our client applications take advantage of the fact that our back end is in Java as well. For example, our forthcoming chat system is compatible with existing forms-based chat, although if you've got a Java interpreter in your browser, it works a lot better."

When it comes to security, seeing is the only path...

...press time), ensures that an enterprising hacker can't get away with posting a malignant Java program called Free Utility that wipes out your hard drive's boot sector when you click on it.

Naughton downplays the role of public-key encryption, giving the Java architecture credit for its resistance to tampering. "Java programs don't have free reign on your system," he says. "They work in the environment defined for Java, and the interpreter checks the code to make sure it conforms to those constraints."

With security in place, Java also raises the stakes for developers who want to make applications that can be modified over time. That's because Java will not only execute code on the fly, but also absorb software updates and new features into Java-based applications already running on your system.

"We may use Java to distribute software updates throughout our network," says David Linthicum, technical manager at Electronic Data...

...keep track of who's updated their code."

If you're a believer like Naughton, Java could and should replace C++ and Visual Basic for all software development. "Java is the language and platform for things that need to evolve over time," he says. "Within two years, all CD-ROMs will have networked components, and they can have a Java interpreter that compiles new fixes and components."

Indeed, Microsoft is already in the planning stages...

...its popular Visual Basic language. Perhaps not surprisingly, Microsoft isn't publicly tooting Sun's Java horn.

"We're kind of skeptical about whether or not Java actually will become ...says Alec Saunders, product manager of Microsoft Plus and the company's Internet Explorer Web browser. "We don't have any plans to incorporate Java into Internet Explorer, which is not to say we won't put automation into the..."

...hand, John Middlehouse, Netscape's founding engineer, claims, "We will support OLE and such, but Java is designed from the ground up to be much more powerful and much more efficient."

"Microsoft is very interested in Java these days, but it's highly political," Naughton claims, referring to Microsoft's lack of...

...even if you have this big OLE-driven system, and part of it is a Java OLE control, then maybe you should have one big Java OLE control and do everything else within the Java app. It becomes an object within an object model."

Whatever the significance for programmers, Java is a clear improvement for the Web, and this fact isn't lost on online service providers. For example, Prodigy, which converted all its online screens to HTML format this year, says it will add a Java interpreter to its Web

browser at minimum, though it wouldn't specify a time frame. More to the point, product...

...more efficiently update the client software for the Web's dial-up service.

One thing Java has on its side is that unlike other technologies designed to do similar automatic updates on distributed systems, such as General Magic's Telescript intelligent agent technology for PDAs, Java has the opportunity to prove itself on a platform that's already popular. In fact, the Web may need Java or something like it as much as Java needs the Web.

11/8,K/102 (Item 1 from file: 608)

DIALOG(R)File 608:(c)2000 Knight Ridder/Tribune Bus News. All rts. reserv.

524223 Story Number: 9552 (USE FORMAT 7 OR 9 FOR FULLTEXT)

AKRON BEACON JOURNAL, OHIO, NET RIDER COLUMN

Dec 02, 1996

WORD COUNT: 0930

COMPANY NAMES: Agents Inc ; Akron ; Beacon Journal ; Goodyear Tire & Rubber Co ; HotWired Inc ; Knight Ridder/Tribune Business News ; Parent Soup ; Perry Local Schools

DESCRIPTORS: Online and Internet

LEAD PARAGRAPH: Dec. 2-- Chat rooms, as a concept, are remarkable.

TEXT: Dec. 2-- Chat rooms, as a concept, are remarkable.

Through their computers, dozens of people at a time...

...to gather lots of people in one place for important discussions.

Of course, anyone cruising chat rooms knows they're rarely used in that way.

The bulk of chat room encounters go something like this:

Dude: Yeah, I'm 6-feet-4, blond, blue...

...night?

(Long pause)

Dude: Uh, gotta go.

Unfortunately, such foolishness has not only clogged the chat rooms on the on-line services, where new folks regularly rack up huge monthly bills because they get carried away with the power of chat, but it has also drifted to the IRC (Internet Relay Chat) channels that used to be more focused.

That's what has led sites -- from Salon ([http:// www .salon1999.com](http://www.salon1999.com)) to ESPNNet ([http:// espnnet.sportszone.com](http://espnnet.sportszone.com)) to Parent Soup ([http:// www .parentsoup.com](http://www.parentsoup.com)) -- to launch their own chat areas at no charge to their members.

And HotWired Inc. ([http:// www .hotwired.com](http://www.hotwired.com)) has taken the next step with Talk.com ([http:// www .talk.com](http://www.talk.com)). The site, which launched in October, will likely lure even more folks away...

...new level -- with live discussions."

Talk.com essentially works like AOL's easy-to-use chat rooms -- as long as you have a Java-ready browser. You log in, you find a room with a topic of interest you like and...

...in the advertisers.

Talk.com features ads on a time-based rotation because people in chat rooms don't move from page to page looking at ads, which is what the ...

...sense of community," said Anuff. "This helps us do that."

Other sites like Firefly ([http:// www .firefly.com](http://www.firefly.com)), from Cambridge, Mass.-based Agents Inc., use the chat areas to strengthen the ties

between their members.

"You can develop ideas by talking with...

...also offer members ways to keep their identities hidden.

While sites like The Palace ([http:// www .thepalace.com](http://www.thepalace.com)) offer users ways to see each other and make their identities more easily known, some sites realize anonymity can also be freeing.

Anonymous members often chat more freely, especially those who are worried about being stalked on-line or worried about...

...in search engines is to use more than one at a time.

Search.com ([http:// www .search.com](http://www.search.com)) collects about 250 search engines in one place, although it takes some tweaking...

...our search engine of choice," writes Shidler.

The Goodyear Tire & Rubber Co. Web site ([http:// www .goodyear.com](http://www.goodyear.com)) continues to garner accolades. In this month's Yahoo! Internet Life magazine, the...

11/8,K/103 (Item 1 from file: 624)

DIALOG(R)File 624:(c) 2000 McGraw-Hill Co. Inc. All rts. reserv.

00771393

**BROWSERS: THE RACE HEATS UP: Microsoft's new Internet Explorer will give Netscape a run for its money**

July 1, 1996

Word Count: 627 \*Full text available in Formats 5, 7 and 9\*

COMPANY NAMES (DIALOG GENERATED): America Online ; Both Netscape Communications ; CompuServe ; Microsoft ; Sun Microsystems

TEXT:

Not too long ago, a browser was just someone who hung around a bookstore without buying anything. Now, thanks to the World Wide Web and the explosion of Web technology on corporate networks, the browser has turned into a pretty indispensable piece of software.

Both Netscape Communications and Microsoft are...

...tools. (Test versions of the browsers are available for downloading from [home.netscape.com](http://home.netscape.com) and [www .microsoft.com/ie/.](http://www.microsoft.com/ie/))

Netscape Navigator 3.0, with commercial release scheduled for July, is an...

... summer, is a huge leap from Microsoft's mediocre current model. This is the first browser that gives Netscape real competition.

GROUP EFFORT. The most notable new feature in Navigator is CoolTalk, which allows voice conversations, typed chat, and the sharing of "white-board" screens. These screens let people take turns making changes...

... identifies you to servers, a crucial step for business transactions on the Net. The new browser runs faster, has improved multimedia abilities, and is much more efficient at running network applications written in Sun Microsystems' Java language.

Microsoft's current Internet Explorer 2.0 lacks many of the features of even...

... allowing you to customize, resize, and move tool bars and menus. In addition to voice, chat, and white-board sharing, Microsoft NetMeeting lets two or more people on the Internet work...

...undesirable sites.

I have to reserve judgment on several Internet Explorer features, including support for Java and the digital signatures security feature,

because they won't work until a second test version...

... technology called ActiveX does work, and it is likely to pose a major challenge to Java, at least in the Windows world.

JAVA BANDWAGON. The stage is now set for a major battle for your desktop between Netscape...

... see happening," says product manager Eckart Walther. "In reality, the whole market is moving toward Java."

Microsoft, which is giving its browser away, is appealing directly to end users, whether in the home or in Corporate America. It also has struck deals to make its latest Internet Explorer the browser of choice on both America Online and CompuServe. And by the end of the year...

11/8,K/104 (Item 1 from file: 635)

DIALOG(R)File 635:(c) 1999 Bell & Howell. All rts. reserv.

0741954 97-00476

**Durand Communications introduces new CommunityWare Services for the Internet**

PUBL DATE: 960930

DATELINE: Santa Barbara, CA, US, Pacific WORD COUNT: 966

COMPANY NAMES: Durand Communications Network Inc, Santa Barbara, CA, US,  
SIC:7372,

CLASSIFICATION CODES: 8302 (Software and computer services); 7500 (Product planning & development)

DESCRIPTORS: Computer service industry; Service introduction; Internet; Intranets

TEXT:

... site presence into their own community context. Community services available to users include: message boards, chat, e-mail directories, who's live, instant messaging, Internet phone, personalized Web pages, links to...

... protocol (LAPI) for creating real-time interaction between people on a web site using any Java or ActiveX enabled web browser. LAPI is designed to give content providers the ability to interact with each other on the Internet in a variety of new ways including live messages, real-time chat, whiteboards and document sharing.

LAPI will be available to third-party developers of CommunityWare services in the fourth quarter 1996 and supports development in Java, ActiveX or Microsoft Foundation Class (MFC).

In support of the new CommunityWare services, Durand has...

... information about Durand CommunityWare can be obtained from Durand's corporate Web site at <http://www.durand.com>. All components of Durand CommunityWare support open standards and Internet tools such as Microsoft's ActiveX technology and Internet Information Server, Sun's Java programming language and Digital's Alpha NT Processor.

Durand CommunityWare requires that all Community members have Internet access and use a Web browser that supports JavaScript and frames such as Netscape Navigator 3.0 or Microsoft Internet Explorer... Durand is headquartered at 147 Castilian Drive, Santa Barbara, Calif. 93117; 805/961-8700; <http://www.durand.com>.

11/8,K/105 (Item 2 from file: 635)

DIALOG(R)File 635:(c) 1999 Bell & Howell. All rts. reserv.

0686685 96-43933

**WebMaster announces first IRC server software for Windows NT-based intranets**

PUBL DATE: 960327

DATELINE: Santa Clara, CA, US, Pacific WORD COUNT: 686

COMPANY NAMES: WebMaster Inc, Santa Clara, CA, US, SIC:7372,

CLASSIFICATION CODES: 8302 (Software and computer services); 7500 (Product planning & development)

DESCRIPTORS: Software industry; Product introduction

**TEXT:**

... WebMaster, Inc. today announced availability of ConferenceRoom, the first low-cost, high-performance Internet Relay Chat (IRC) server software for Microsoft Windows NT.

ConferenceRoom is the first IRC solution built from...

... of NT-based servers. Another feature allows browsers from Netscape, Microsoft, and others to become Chat clients. The software also provides a unique configuration utility which allows administration of the IRC server from any secure web browser .

**Collaborative Computing and Multimedia Support:**

ConferenceRoom allows for enterprise-wide collaborative computing through IRC, using...

... any MIME-compliant document to all members of an IRC channel. Supported document types include:

- HTML (Web) pages
  - Adobe Acrobat PDF
  - Microsoft Word
  - Microsoft Excel
  - Microsoft PowerPoint
- ConferenceRoom's ease of...

...8.x for UNIX

Supports multimedia clients, including:

- Voice over IRC
- Video over IRC

**Web Browser Compatibility:**

Microsoft's Internet Explorer 3.0 and above (when available). Ships with OCX/OLE...

...Explorer to be an IRC Client.

Netscape's Navigator 2.0 and above. Ships with Java client, allowing Navigator to function as an IRC Client with smooth scrolling functionality.

Availability:  
ConferenceRoom...

... reduced-function version will be available for trial download from WebMaster's home page ([http:// www .webmaster.com](http://www.webmaster.com)), and will be priced at \$99.

Company Information:

WebMaster Inc. is a technical...

...presence. WebMaster Inc. is the online publisher for Intervista Software Inc.'s WorldView 3D Web Browser and also has strategic marketing relationships with NEC and Scientific-Atlanta for internet server and...

11/8,K/106 (Item 3 from file: 635)

DIALOG(R)File 635:(c) 1999 Bell & Howell. All rts. reserv.

0681590 96-38803

**Starfish Software ships EarthTime 2.0**

PUBL DATE: 960312

DATELINE: Scotts Valley, CA, US, Pacific WORD COUNT: 845

COMPANY NAMES: Starfish Software, Santa Cruz, CA, US, SIC:7372,

CLASSIFICATION CODES: 8302 (Software and computer services); 7500 (Product planning & development)

DESCRIPTORS: Software industry; Product introduction

TEXT:

... always know the right time to schedule communications, make appointments, plan conference calls or online chat sessions with EarthTime 2.0 because it lets them monitor local time for eight cities...

... 0 users because they can enjoy all the EarthTime 2.0 functionality without leaving the browser ."

The system requirements for EarthTime 2.0 are: -- a 386 or higher PC running Windows...

... The company has announced that, in 1996, it will begin delivery of Internet Sidekick, featuring Java -based Internet and Intranet enterprise scheduling. With Internet Dashboard, Starfish plans to take an early...

...CTI).

Contacting Starfish Software

For more information, contact Starfish Software on the Internet at: [http:// www .starfishsoftware.com](http://www.starfishsoftware.com) or visit Starfish Software forums on leading commercial services (America Online: Keyword Starfish...

...at 1700 Green Hills Road, Scotts Valley, CA, 95066.

KEYWORDS: Starfish, Philippe Kahn, Netscape, Internet, Java , Intranet, Sidekick, Dashboard, EarthTime, Navigator, Netscape Communications, NASDAQ: NSCP

Note to Editors: To receive a...

11/8,K/107 (Item 4 from file: 635)

DIALOG(R)File 635:(c) 1999 Bell & Howell. All rts. reserv.

0680058 96-37258

**Ichat offers Netscape plug-in for truly interactive web integrated chat sessions**

PUBL DATE: 960307

DATELINE: San Francisco, CA, US, Pacific

WORD COUNT: 652

COMPANY NAMES: Ichat Inc, Austin, TX, US, SIC:7372,

CLASSIFICATION CODES: 8302 (Software and computer services); 7500 (Product planning & development)

DESCRIPTORS: Software industry; Product introduction

**Ichat offers Netscape plug-in for truly interactive web integrated chat sessions**

TEXT:

...first plug-in to enable World Wide Web visitors access to real-time, Web-integrated chat sessions. The Netscape Navigator 2.0 plug-in architecture allows third-party developers to embed their applications directly into Netscape, enabling seamless access from within a Web page. Chat systems allow Internet users to interact directly with one another.

Generally, the Web is a static medium permitting the one-way transfer of data, but with better integration of chat on the Web, its status is about to change. Chat is valuable because it brings people together electronically in a way that makes it easy to communicate with one another. Unlike other forms of chat, Web-integrated chat enhances a company's Web presence by delivering to visitors the opportunity to interact with others in real-time, without having to launch a separate application to enter chat rooms. The addition of Web-integrated chat enables the Web site to develop a sense of community among its visitors who already...

...a common interest in the content of the site.

The ichat Plug-in seamlessly integrates chat with Web pages, delivering visitors the best of both worlds -- the ability to view Web...

... with others viewing the same Web page. Once installed on the Netscape Navigator 2.0 Browser, the ichat plug-in will automatically launch when visitors connect to a Web site that...

... The ichat Plug-in also allows users to click on hyperlinks to the Internet Relay Chat (IRC), the most popular form of chat currently available on the Internet. The ichat Plug-in is the first Web-based system ...

... provides a powerful solution for information delivery, including the integration of graphics, text, forms and Java," said Andrew Busey, president of ichat. "At ichat, we are introducing real-time Web-integrated chat to help transform the evolving architecture of the Web, enabling organizations to turn their Web...

... an existing Web site. The product extends that site's capabilities by adding real-time chat functionality and the concept of virtual space. The ichat Interactive Server can be used to...

... to move through and interact with other objects, as well as view other Web pages.

Chat is a popular element of the major online services. When a chat room is embedded into a Web site it is fully integrated with a Web server, enabling visitors to build chat rooms with hyperlinks to their home pages or to create Web pages that are tied to specific pieces of the chat room.

The ichat Interactive Server, in conjunction with ichat's Plug-In for Netscape, makes it possible to run a real-time chat system and to integrate that chat system with a Web site. Visitors can download the ichat Plug-in for Netscape on...

... privately held company whose mission is to provide a user-friendly channel for accessing Internet chat resources and provide tools for creating robust and professional chat servers that can be integrated with the World Wide Web. For more information on the company and its products, visit the ichat Web site at [http:// www .ichat.com](http://www.ichat.com).

NOTE: ichat and the ichat logo are trademarks of ichat, Inc. All other ...

**11/8,K/108 (Item 1 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03358326 Supplier Number: 46907216 (USE FORMAT 7 FOR FULLTEXT)

**Civic Clubs Can Get Web Site Help At Civic Club Central 11/20/96**

Nov 20, 1996

Word Count: 521

PUBLISHER NAME: Newsbytes News Network

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)

Developed by Winchester, Virginia-based Carper's Internet Services, the Web site at [http:// www .civic-clubs.com](http://www.civic-clubs.com) allows civic clubs to create and maintain their own Web pages at...

...the Civic Club Central Directory.

Additional resources available on Civic Club Central include real-time Java chat using a member's current browser, news, catalogs and cross-posting discussion forums. Club members can share their ideas on fund...

**11/8,K/109 (Item 2 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03352194 Supplier Number: 46892880 (USE FORMAT 7 FOR FULLTEXT)

**nnovative Web Sites: HotWired Unveils Chat Site**

Nov 15, 1996

Word Count: 145

PUBLISHER NAME: Communications Industry Researchers, Inc.

INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)

(USE FORMAT 7 FOR FULLTEXT)

**nnovative Web Sites: HotWired Unveils Chat Site**

TEXT:

The HotWired Network has unveiled Talk.com ([http:// www .talk.com](http://www.talk.com)), the next wave in online text-based chat. Based on Sun Microsystems Inc.'s Java technology, Talk.com incorporates all the familiar chat features of popular pay-per-use online services in an Internet site that is free...

...an enhanced user interface and faster downloading, while eliminating the need to use a Web browser to get into the service. Either way, Talk.com will be supported by rotations of...

**11/8,K/110 (Item 3 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03327226 Supplier Number: 46840694 (USE FORMAT 7 FOR FULLTEXT)

**PRODIGY INTERNET: New tutorial for Prodigy Internet debuts at**



**www.prodigy.com**

Oct 30, 1996

Word Count: 799

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,  
International)

(USE FORMAT 7 FOR FULLTEXT)

**PRODIGY INTERNET: New tutorial for Prodigy Internet debuts at www  
.prodigy.com**

TEXT:

M2 PRESSWIRE-30 October 1996-PRODIGY INTERNET: New tutorial for Prodigy  
Internet debuts at www .prodigy.com

... based online service

WHITE PLAINS, NY -- A new tutorial for Prodigy Internet debuts today  
at www .prodigy.com explaining all the benefits of Prodigy Inc.'s new  
flagship product.

Prodigy Internet...

...database feeds are delivered to each member's screen.

Prodigy Internet may be downloaded at www .prodigy.com. The Prodigy  
Internet default browser will be Microsoft Internet Explorer 3.0. The  
service is available with Netscape Navigator 3...

...Bar. Prodigy provides access to the tools that highlight all the  
capabilities of the Internet: chat , newsgroups, mail, navigation such as  
search, go to, hot list, etc. The Prodigy Toolbar can...

...Search, Content Rating (where members rate the Web sites they visit),  
Related Content, GoTo, Home, Chat , E- mail, Newsgroups, Help, Disconnect  
and Your Folder. The Prodigy Navigation Bar is a guide...

...vast riches of the Internet. Other online services require users to open  
and close the browser each time they visit a Web site on the Internet.  
Prodigy Internet content lives inside the Web browser and its content is  
fully integrated with Internet content. This is why the Prodigy Navigation  
...

...the latest Internet technologies: Internet Explorer 3.0, Netscape 3.0,  
ActiveX, RealAudio, Quarterdeck Global Chat , and extensive use of Java  
and Javascript.

Prodigy Internet is built on current Internet standards, including  
those for e-mail, chat and newsgroups. Prodigy Internet leverages the  
integration of mail and newsgroups on the powerful browsers...

**11/8,K/111 (Item 4 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03285639 Supplier Number: 46747749 (USE FORMAT 7 FOR FULLTEXT)

**DURAND COMMUNICATIONS: Durand introduces new CommunityWare services for the  
Internet**

Sept 30, 1996

Word Count: 1025

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,  
International)

... site presence into their own community context.

Community services available to users include: message boards, chat ,  
e-mail directories, who's live, instant messaging, Internet phone,  
personalized Web pages, links to...

...protocol (LAPI) for creating real-time interaction between people on a  
web site using any Java or ActiveX enabled web browser . LAPI is

designed to give content providers the ability to interact with each other on the Internet in a variety of new ways including live messages, real-time chat , whiteboards and document sharing.

LAPI will be available to third-party developers of CommunityWare services in the fourth quarter 1996 and supports development in Java , ActiveX or Microsoft Foundation Class (MFC).

In support of the new CommunityWare services, Durand has...

...and Internet tools such as Microsoft's ActiveX technology and Internet Information Server, Sun's Java programming language and Digital's Alpha NT Processor.

Durand CommunityWare requires that all Community members have Internet access and use a Web browser that supports JavaScript and frames such as Netscape Navigator 3.0 or Microsoft Internet Explorer...

11/8,K/112 (Item 5 from file: 636)

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03233518 Supplier Number: 46630814 (USE FORMAT 7 FOR FULLTEXT)

**WEBMASTER INC: WebMaster releases Internet relay chat server for Windows**  
August 15, 1996

Word Count: 649

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,  
International)

(USE FORMAT 7 FOR FULLTEXT)

**WEBMASTER INC: WebMaster releases Internet relay chat server for Windows**  
TEXT:

15 August 1996-WEBMASTER INC: WebMaster releases Internet relay chat  
server for Windows (C)1994-96 M2 COMMUNICATIONS LTD

... 120896

WebMaster Inc. today announced the availability of ConferenceRoom, the first fully functional Internet Relay Chat (IRC) server for windows NT and Windows 95.

Written specifically to take advantage of the...

...performance of Microsoft Windows, ConferenceRoom allows general computer users to add standards-compliant real-time chat on their web page. It also has greater reliability, performance, and scalability than UNIX. chat servers.

Integrated with the Web through a built-in theme-based web server, ConferenceRoom differentiates itself from other web-based chat systems by allowing the seamless addition of real-time chat to an existing web page. Using a Java -enabled web browser , a first time visitor is no longer required to download a proprietary chat client. The web server interface provides features such as one to one and "party-line" chats , functionality for highly populated events, and the ability to create custom chat web themes in addition to those provided - features previously only found in the proprietary interfaces...

...our clients."

ConferenceRoom also functions as a universal client. It can be accessed through any Java -enabled browser such as Microsoft's Internet Explorer.3.0 and Netscape Navigator 2.0 and above...

...ConferenceRoom. is perfect for support, distance learning applications, virtual meetings, or as a place to chat with friends. It's ease of use offers companies the ability to run cost-effective conferencing, support, and training operations globally.

"With ConferenceRoom, it's now so easy to integrate chat into your web site, there's no reason not to do it," said Mark Owen...

...president of marketing for WebMaster, Inc. "From virtual meetings to distance learning, the range of chat applications has made its implementation a necessity rather an option. The only problem I've...

...web, providing greater ease of use and functionality, including a web server interface with a Java -based client. ConferenceRoom is written to the same specifications as UNIX IRC servers. This ensures...

...products for web site development and administration. Products include solutions for network news, Internet relay chat and Internet commerce.

CONTACT: Avi Singh, WebMaster, Inc.

Tel: +1 408 345-1800

e-mail...

**11/8,K/113 (Item 6 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03224159 Supplier Number: 46609955 (USE FORMAT 7 FOR FULLTEXT)

**OZ INTERACTIVE: OZ announces Soft2vrml available at no charge for users of Softimage**

August 6, 1996

Word Count: 575

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

... program. Users can download Soft2vrml now for free from the OZ Web site at [http:// www .oz-inc.com](http://www.oz-inc.com).

"Soft2vrml combines with Softimage 3D to enable the world's finest 3D

...

...real-time communications and multi-participant interaction on top of a fast, fully featured VRML browser . Key features include the ability to customize a Persona's physical characteristics and behavior; full support for the VRML 2.0 standard; text-based communications and voice chat ; an advanced 3D audio engine that simulates sound in three-dimensional spaces; and full support for Java .

Starting in early August, users will be able to download a beta of OZ VIRTUAL free of charge from the OZ Web site at [http:// www .oz-inc.com](http://www.oz-inc.com). The final shipping version of OZ VIRTUAL will be available this fall...

**11/8,K/114 (Item 7 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03198396 Supplier Number: 46554489 (USE FORMAT 7 FOR FULLTEXT)

**Internet Software Update 07/18/96**

July 18, 1996

Word Count: 774

PUBLISHER NAME: Newsbytes News Network

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)

... Internet Explorer version 3.0. Improvements made to this version include the areas of integrated Java support, plug-in support, HTML (hypertext markup language) layout control, improved Internet mail and news, conferencing, security, personalization, video and...

...Version: 3.0 Supported OS: Windows NT, 95 Software Type: free World Wide Web: [http:// www .adobe.com/](http://www.adobe.com/)

Eudora 3.0

Qualcomm has shipped a new version 3.0 of the...

...Current Version: 3.0 Supported OS: MacOS Software Type: Commercial (\$89)  
 World Wide Web: [http:// www .eudora.com/](http://www.eudora.com/)  
 Visual J++  
 Microsoft has released its Visual J++, Java development tool,  
 professional edition. In common with many of the new applications just  
 released by...

...J++ includes support for the ActiveXT language and allows developers to  
 add ActiveXT components to Java applets. Current Version: beta Supported  
 OS: Windows NT, 95 Software Type: free World Wide Web:  
<http://microsoft.com/visualj/>

#### Como Adds Chatting

The Como system now supports moderated chat events for the Web. Como  
 consists of a server program that runs on the Web server and a number of  
 Java Applets that can be included in Web pages, including chat, voting  
 and surveys, shared whiteboard, games, and more. To use the new chat  
 applet, which won a \$75,000 prize at Sun's Java Cup, users require a  
 browser with Java support. Current Version: 1.0 Supported OS: Java  
 Software Type: free World Wide Web: [http:// www .comopro.com/](http://www.comopro.com/)

#### ProStream Updated

A new version of the ProStream software has been released. The...

...1.1 Supported OS: MS Windows NT, 95 Software Type: free World Wide Web:  
[http:// www .ps-group.com/](http://www.ps-group.com/)

#### WebDesk

WebDesk is a Web page manager for Windows and Netscape Navigator...

...MS Windows 3.x, 95 Software Type: 90 day evaluation copy World Wide Web:  
[http:// www .kachinatech.com/ intersoft/](http://www.kachinatech.com/intersoft/)

#### eXodusNFS

White Pine Software has announced eXodusNFS, a network file system for  
 ...

...OS: MS Windows 3.1, NT, 95 Software Type: Commercial (\$189) World Wide  
 Web: [http:// www .wpine.com/](http://www.wpine.com/)

#### VirusWall

VirusWall is a new application that scans e-mail messages and check...

...Solaris Software Type: Commercial (\$1,995), 30 day evaluation copy  
 available World Wide Web: [http:// www .antivirus.com/](http://www.antivirus.com/)  
 (19960718)

COPYRIGHT 1996 Newsbytes Inc.

**11/8,K/115 (Item 8 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03080703 Supplier Number: 46295125 (USE FORMAT 7 FOR FULLTEXT)

**Sneak Preview Of Interact '96 "Virtual Trade Show" 04/10/96**

April 10, 1996

Word Count: 952

PUBLISHER NAME: Newsbytes News Network

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office  
 Automation); TELC (Telecommunications)

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...visit virtual booths, and to choose between "VRML (virtual reality  
 mark-up language) or standard HTML (hypertext mark-up language)

browsers," said sponsors of "the world's first virtual tradeshow," at...

... the upcoming trade show's video presentations on the Interact '96  
 home page, at [http:// www .interact96.com](http://www.interact96.com) .

During a demo, Gossieuax accessed a video talk by Sun Microsystems'  
 Eric Schmidt...

...April 23.

The virtual trade show booths will be visible to anyone using a VRML browser , as will Java chat rooms. Meetings with the avatars will be made possible by Black Sun's Cybergate technology...

...users with lower-end systems, and those who do not feel comfortable with VRML and Java yet, will be able to take part in the online event, too, through the use of a standard HTML browser . "We're even making transcripts of the conference sessions available in text form," Gossieaux said...

...of InfoWorld; Paul Gudonis, president and chief executive officer (CEO) of BBN Planet; Vania Joloboff, Java Program manager of the Open Software Foundation (OSF); Steven McGeady, VP and general manager of...

...office.

Visitors, he said, will be able to "meet" in a variety of kinds of chat rooms, including "discussion rooms" for technical topics; "partner chat rooms" that will be connected to vendors' booths; and "Q&A rooms" for Q&A...

11/8,K/116 (Item 9 from file: 636)

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03080192 Supplier Number: 46294014 (USE FORMAT 7 FOR FULLTEXT)

**STRATUS: InterAct '96 showcases net technologies in first virtual tradeshow for distributed computing**

April 10, 1996

Word Count: 874

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

RDATE:090496

\* InterAct '96 delivers technology firsts through integration of HTML , ShockWave, Java , VRML and Avatars

MARLBORO, MA-- InterAct '96, the first virtual trade show for distributed computing, is preparing to unveil the world's most innovative integration of hypertext markup language ( HTML ), Java , and virtual reality markup language (VRML) programming available on the World Wide Web. Developed by programmers specializing in HTML , Java , and VRML, InterAct '96 is the only Web site to showcase a combination of 3-D VRML chat rooms, streamed audio and video, and innovative Java applets. InterAct '96 promises to deliver the most unique technology trade show experience to all attendees, vendors, and press.

"We have tested our technology with leading Java developers, HTML encoders, and VRML programmers. This is the most innovative integration of these technologies available on...

...virtual conference gates, InterAct '96 attendees will choose their trade show experience as a standard HTML trade show or as a Virtual VRML trade show. For access to the HTML trade show, the attendees can access the World Wide Web via any Web browser . The trade show experience improves, however, if the user's browser has the capacity for multimedia applications. InterAct '96 trade show content exists in a number of formats including: Java , Shockwave, streamed audio/video, and net-phone.

The VRML trade show booths are visible to anyone with a VRML browser . A VRML browser allows users to enter the 3-D trade show floor and participate in virtual chat sessions through Java chat rooms. In addition, interactive avatars are available through Black Sun Inc.'s CyberGate technology. Avatars...

...for InterAct '96 can be obtained in the toolbox section of the home

page: [http:// www .interact96.com](http://www.interact96.com). Users who do not wish to experience the speaking presentations through audio or video can obtain text-only transcripts of the speeches, and participate in on-line chat sessions that occur at pre-scheduled times during the show.

#### Chats

There are three main types of discussion rooms available for InterAct '96 chat sessions: discussion rooms for technical topics, partner chat rooms that are linked to the partners' booths, and Q&A speaker sessions that follow the presentations. The chat sessions are available through a combination of technologies, depending upon the users capabilities. All of ...

...and can be attended by anyone who registers at the InterAct '96 Web site: [http:// www .interact96.com](http://www.interact96.com). The conference will provide exciting, interactive access to a wide variety of activities...

...times to conference attendees in video, audio and text formats at the conference site: [http:// www .interact96.com](http://www.interact96.com), until May 15.

CONTACT: Francois Gossieaux, Stratus Computer, Inc. Tel: +1 508-460...

**11/8,K/117 (Item 10 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03068181 Supplier Number: 46270967 (USE FORMAT 7 FOR FULLTEXT)

**Intermedia World Conference 4 - 7 March: San Francisco CA**

April 1, 1996

Word Count: 3620

PUBLISHER NAME: Future Systems, Inc

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

... DirectX (See TOOLS & TECHNOLOGY) (Reed, 383 Main Avenue, Norwalk CT 06851, 203/840-5834, [http:// www .reedexpo.com](http://www.reedexpo.com)).

#### Keynote

Keynoter Mike Slade (CEO, Starwave Corporation) offered a low-key chat on the evolution of the Internet and World Wide Web. He described the Web as...

...However, more companies have begun to offer higher bandwidth access and new programming tools like Java to make Web pages more dynamic.

Slade commented on the three existing ways to make...

...the most successful CD-ROMs are games, and the most popular online areas are the "chat" rooms. He sees, therefore, great potential for combining the two to offer real-time collaborative...

...moving toward a time of constant new releases of software."

Colligan opined that Sun's Java is a very important language, but it does not yet provide an environment for rigorous corporate applications. He described Macromedia Shockwave, a similar application for non-programmers, while Java is for programmers. Doerr noted that Java is a "first-rate new language" that has achieved brand-name recognition in excess of...

...and has announced plans for a new visual authoring tool, code-named Cruiser, for creating Java applets for Internet applications. The company also announced that its Icon Author player can be run as a Netscape plug-in, allowing multimedia applications to be tightly integrated with the browser (20 Trafalgar Square, Nashua NH 03063, 603/883-0220, 603/883-5582, [http:// www .aimtech.com](http://www.aimtech.com)).

\* Allen Communication announced Quest Net+, the latest version of its Quest Multimedia Authoring...Triad Center, Salt Lake City UT 84180, 801/537-7800, fax 801/537-7805, [http:// www .allencopm.com](http://www.allencopm.com)).

\* Allegiant Technologies, publisher of the Supercard authoring package, unveiled a plug-in for...

...9740 Scranton Road, San Diego CA 92121, 619/587-0500, fax 619/587-1314, [http:// www .allegiant.com](http://www.allegiant.com)).

\* Cinemar Corporation showed its new Virtual Venue for Windows software, a which offers...

...SW Beaverton-Hillsdale Highway, Beaverton OR 97005, 503/646-2800, fax 503/646-5610, [http:// www .cinemar.com](http://www.cinemar.com)).

\* Dataware Technologies Inc. demonstrated its NetAnswer information Super Server and its high-end...

...support for Adobe Acrobat. Major Web sites already completed with NetAnswer include Gale Research ([http:// www .gale.com/gale. html](http://www.gale.com/gale.html) ), Copyright Clearance Center ([http:// www .copyright.com](http://www.copyright.com)), Healthgate Data Corporation ( [www .healthgate.com](http://www.healthgate.com)); and the American Mathematical Society ( [www .ams.org](http://www.ams.org)). Dataware also demonstrated a number of hybrid applications, combining CD-ROM, online, fax...

...Road, Seven Piedmont Center, Atlanta GA 30305, 404/264-8000, fax 404/264-8300, [http:// www .iterated.com](http://www.iterated.com)).

\* Macmillan Digital USA, the new media reference publishing imprint of Macmillan Publishing USA...

...highlights, still images, radio calls, and statistics. Macmillan also promoted its Information Super Library ([http:// www .mcp.com](http://www.mcp.com)), a Web site which allows visitors to view tables of contents and sample...Oak Ridge Highway, Knoxville TN 37931, fax 423/690-5600, fax 423/690-2913, [http:// www .omniview.com](http://www.omniview.com)).

\* Onlive Technologies demonstrated its 3D voice chat application which enables real-time voice communciations between people in graphically rich virtual worlds. The...

...testing and works as either a standalone application or as an extension to a Web browser (10131 Bubb Road, Cupertino CA 95014, 408/366-6000, fax 408/366-0357, [http:// www .onlive.com](http://www.onlive.com)).

\* Paragraph International, announced the availability of its Virtual Home Space Builder (VHSB) 1...

...site (1688 Dell Avenue, Campbell CA 95008, 408/364-7700, fax 408/374-5466, [http:// www .paragraph.com/vhsb](http://www.paragraph.com/vhsb)).

\* Philips Electronics showed its prototype digital videodisc (DVD) player and demonstrated the...

...TV-based Internet access device. Based on Philips CD-i technology, the player reformats standard HTML Web pages for display at television resolution (Philips Media, Suite 700, 10960 Wilshire Boulevard, Los...

...Eight Oak Park Drive, Bedford MA 01730, 617/275-5150, fax 617/275-3430, [http:// www .sss.scitex.com/pitango](http://www.sss.scitex.com/pitango)).

\* Splash Studios has begun shipping Piper, an interactive musical adventure. The...

11/8,K/118 (Item 11 from file: 636)

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03046432 Supplier Number: 46220745 (USE FORMAT 7 FOR FULLTEXT)

**SUPERSCAPE: Superscape and Black Sun Interactive deliver community on the Virtual World Wide Web**

March 13, 1996

Word Count: 880

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

RDATE:120397

\* New collaboration brings avatars and chat to global network of 3D pages on the Virtual World Wide Web (VWWW)  
Superscape, a...

...Sun Interactive, a leading online community company, have joined together to integrate the Superscape Viscape browser with Black Sun's online community functionality. A new Java interface has been added to the Viscape browser that links with Black Sun Interactive's client software, Passport, to enable chat and interaction on the Virtual World Wide Web, the global network of over two hundred...

...Black Sun and Superscape unites the benefits of community with an extremely fast 3D Web browser that is available for both Netscape Navigator and Internet Explorer," said Franz Buchenberger, CEO of...

...World Wide Web benefit from the integration of Black Sun's community and collaboration features - Chat and interaction are critical elements for leveraging content and building community among the interconnected network  
...

...benefits of Black Sun's community functionality that will be available through Superscape's Viscape browser include the ability to choose your own 3D representation, or "avatar", and to view and interact with other users as avatars; communicate with others through text-based chat in both group and one-to-one interactions; and exchange personally tailored business cards, "cybercards..."

...and NT platforms.

The Black Sun Passport plug-in is fully integrated with the Viscape browser to run on a user's PC. Visitors to online communities on the Virtual World Wide Web will see the Viscape browser window within the Passport interface. Users can navigate using the familiar Viscape browser, while using the Passport interface to communicate and interact with other users.

Availability The Viscape browser with integrated Black Sun Passport features is available for download on March 12, 1997 from the Superscape Web site at <http://www.superscape.com>. For more information on the Black Sun Community Server, please visit <http://www.blacksun.com>.

Technical Requirements Platforms supported by the Superscape Viscape browser include Windows 3.11, Windows 95 and NT. The Superscape VRT authoring tools are available...

...is the company's award winning authoring software. Viscape, the world's fastest 3D web browser, is an ActiveX control for Microsoft Internet Explorer and a plug-in for Netscape Navigator...

...an emerging standard for online communities, is fully compliant with existing open standards such as HTML, VRML, and Java. Founded in 1995, Black Sun delivers a extensible and scaleable platform for running online communities...

11/8,K/119 (Item 12 from file: 636)

DIALOG(R)File 636: (c) 2000 The Gale Group. All rts. reserv.

03045287 Supplier Number: 46218285 (USE FORMAT 7 FOR FULLTEXT)

ICHAT: iCHAT offers Netscape plug-in for truly interactive Web integrated chat sessions

March 12, 1996

Word Count: 732

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)



(USE FORMAT 7 FOR FULLTEXT)

**ICHAT: iCHAT offers Netscape plug-in for truly interactive Web integrated chat sessions**

TEXT:

...PRESSWIRE-12 March 1996-ICHAT: iCHAT offers Netscape plug-in for truly interactive Web integrated chat sessions (C)1994-96 M2 COMMUNICATIONS LTD

RDATE:110396

\* First vendor to deliver real-time Web integrated chat

SAN FRANCISCO, CA -- ichtat, Inc., an Austin, Texas-based software developer, announced at the Netscape...

...first plug-in to enable World Wide Web visitors access to real-time, Web-integrated chat sessions. The Netscape Navigator 2.0 plug-in architecture allows third-party developers to embed their applications directly into Netscape, enabling seamless access from within a Web page. Chat systems allow Internet users to interact directly with one another.

Generally, the Web is a static medium permitting the one-way transfer of data, but with better integration of chat on the Web, its status is about to change. Chat is valuable because it brings people together electronically in a way that makes it easy to communicate with one another. Unlike other forms of chat, Web-integrated chat enhances a company's Web presence by delivering to visitors the opportunity to interact with others in real-time, without having to launch a separate application to enter chat rooms. The addition of Web-integrated chat enables the Web site to develop a sense of...

...a common interest in the content of the site.

The ichtat Plug-in seamlessly integrates chat with Web pages, delivering visitors the best of both worlds -the ability to view Web...

...with others viewing the same Web page. Once installed on the Netscape Navigator 2.0 Browser, the ichtat Plug-in will automatically launch when visitors connect to a Web site that...

...The ichtat Plug-in also allows users to click on hyperlinks to the Internet Relay Chat (IRC), the most popular form of chat currently available on the Internet. The ichtat Plug-in is the first Web-based system ...

...provides a powerful solution for information delivery, including the integration of graphics, text, forms and Java," said Andrew Busey, president of ichtat. "At ichtat, we are introducing real-time Web-integrated chat to help transform the evolving architecture of the Web, enabling organizations to turn their Web...

...with an existing Web site. The product extends that site's capabilities by adding real-time chat functionality and the concept of virtual space. The ichtat Interactive Server can be used to...

...to move through and interact with other objects, as well as view other Web pages.

Chat is a popular element of the major online services. When a chat room is embedded into a Web site it is fully integrated with a Web server, enabling visitors to build chat rooms with hyperlinks to their home pages or to create Web pages that are tied to specific pieces of the chat room. The ichtat Interactive Server, in conjunction with ichtat's Plug-In for Netscape, makes it possible to run a real-time chat system and to integrate that chat system with a Web site. Visitors can download the ichtat Plug-in for Netscape on...

...privately held company whose mission is to provide a user-friendly channel for accessing Internet chat resources and provide tools for creating robust and professional chat servers that can be integrated with the World Wide Web. For more information on the company and its products, visit the ichtat Web site at <http://www.ichtat.com>.

ichtat and the ichtat logo are trademarks of ichtat, Inc. All other

trademarks...

**11/8,K/120 (Item 13 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03009079 Supplier Number: 46139487 (USE FORMAT 7 FOR FULLTEXT)

**PRODIGY TESTS NEW ACCESS PRICING PLAN**

Feb 12, 1996

Word Count: 1135

PUBLISHER NAME: Phillips Business Information, Inc.

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

... include free access software. The Winsock-compliant package will feature the Netscape Navigator 2.0 browser and Eudora Lite e-mail software. It also will offer FTP client, dialer, TCP/IP...

...from NCD Software Corp. Prodigy licensed the software from NCD last week. An Internet Relay Chat client also will be part of the package.

Prodigy is currently beta testing the Internet...

...access software by using their own packaging and marketing materials in the software bundle. The browser can be programmed to link directly to the firm's home page when launched, and...

...be stored under an icon of the company's logo on the user's desktop. Browser hot lists also can be preprogrammed as part of the package.

Private brand users will...Darcy said Prodigy had already been approached by several companies interested in the program.

**Assessing Java Patents**

Meanwhile, Prodigy is still examining its patents to see if Sun Microsystems's [SUNW] Java language infringes on any of them. Last month, three former Prodigy employees asserted that Java did infringe on Prodigy's patents. That announcement came on the heels of rumors that...

**11/8,K/121 (Item 14 from file: 636)**

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

03007253 Supplier Number: 46135274 (USE FORMAT 7 FOR FULLTEXT)

**News Analysis -- BLACK SUN'S VIRTUAL REALITY BROWSER UNDERSCORES ACCELERATION OF 3-D ENTRY ONTO THE WEB; CREATING 'PointWorld' 3-D REVIEW SERVICE**

Feb 9, 1996

Word Count: 1126

PUBLISHER NAME: BRP Publications

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

**News Analysis -- BLACK SUN'S VIRTUAL REALITY BROWSER UNDERSCORES ACCELERATION OF 3-D ENTRY ONTO THE WEB; CREATING 'PointWorld' 3-D REVIEW SERVICE**

Black Sun Interactive Inc. will introduce its "CyberGate" browser software for three-dimensional information visualization and multiuser interaction on the Internet next Monday, Feb...

...CMG@Ventures was created by Massachusetts entrepreneurs from their profits after selling their original Booklink browser to America Online Inc.

**Three Products to Roll Out by Summer**

CyberGate is available via free downloading from Black Sun's Web site ( www .blacksun.com) as of Feb. 12. A retail version is expected to be in stores...

...and objects in a world by pointing with a mouse cursor. They can exchange text chat through a sidebar frame within the browser. CyberGate includes a "1:1" feature which lets participants in an auditorium chat room, for example, create individual conversational threads with other participants, separate from the general chaos that often goes on in the chat sessions.

CyberHub is a server technology that lets site managers coordinate and support interaction in...

...services on the Internet.

CyberGate users accessing the same CyberHub server can interact using a chat function that allows them to identify each other, converse or exchange information. CyberHub can support...

...CyberCells are predefined, customizable VRML objects that can be assigned behaviors from a library of Java scripts and transmitted through the Internet as radically compressed CyberGenes. This will allow simplified construction...

...formats of Internet presentation. For example, CyberGate can be launched by any hypertext markup language ( HTML ) browser that supports helper applications, raising the prospect that users may bounce back and forth between...

...in a CyberGate window; a viewer also can mouse-click to bring up a Web browser to view the site.

In addition to ...virtual space. Among its future design goals is the capacity to create formats for verbal chat lines.

Black Sun Interactive's offices in the United States are at 14 Juri St

...

11/8,K/122 (Item 15 from file: 636)

DIALOG(R)File 636:(c) 2000 The Gale Group. All rts. reserv.

02987117 Supplier Number: 46091427 (USE FORMAT 7 FOR FULLTEXT)

**SYMANTEC: Symantec announces results for the December 1995 quarter**

Jan 25, 1996

Word Count: 1210

PUBLISHER NAME: M2 Communications

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

... the full power of the Internet, by providing full-featured client applications including a Web browser, USENet News reader, FTP (File Transfer Protocol) file transfer, Internet chatting sessions (IRC - Internet Relay Chat), e-mail via Microsoft Exchange (the built-in e-mail client software in Windows 95...

...Image and Zip managers with built-in Norton AntiVirus.  
Development Tools

The company licensed the Java Internet programming language technology from Sun Microsystems and released the first Java development environment for Windows 95 and NT, code named "Cafe". Cafe is Symantec's fully integrated development environment which seamlessly integrates Sun's Java Development Kit (JDK) for the creation of Java applets for Internet web pages. Cafe provides Java developers with class and project management capabilities within a graphical development environment. Developers who have licensed Symantec C++ can download Cafe from Symantec's web site at [www.symantec.com](http://www.symantec.com).

Java, developed by Sun, is an object-oriented programming language that operates independent of any particular operating system or microprocessor. Java programs -- called applets -- can be transmitted over a network and run on any client, providing the multimedia richness of a CD-ROM over corporate networks and the Internet. Java has been widely

hailed by programmers because it eliminates the need to port applications, and...

**11/8,K/123 (Item 1 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01138438 CMP ACCESSION NUMBER: NWCS0036

**Centra Software Symposium 1.0** (Collaborative Computing)  
WORD COUNT: 168

TEXT: .

... learning and real-time collaboration applications, has released its first product: Symposium 1.0, a Java -based product. Symposium enables the delivery of live instructor-led training and self-paced learning...

...It delivers time- sensitive information and training to a geographically dispersed workforce. Written entirely in Java , Symposium 1.0 enables real-time training and group collaboration from your Web browser and features synchronized viewing of multimedia content, integrated audio streaming , text chat and shared whiteboard. The BodyLanguage capability lets students raise their hands, respond "yes" or "no..."

... 500 users  
Centra Software  
(888) 547-6300; fax (781) 862-2453  
info@centra.com or www .centra.com  
Reader Service #353 or www .nwc.com/rs/rs. html  
Copyright (c) 1997 CMP Media Inc.  
.END

**11/8,K/124 (Item 2 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01111150 CMP ACCESSION NUMBER: NTG19961101S0047

**Network Computers - Streamlined and ready for action**  
PUBLICATION DATE: 961101  
WORD COUNT: 4888

... has been optimized for the tasks involved in connecting to a Web site, displaying an HTML page, and performing basic navigation and display functions. A minimum number of other components, including...

...the corporate environment, net boxes typically function as an intranet terminal, enabling users to process HTML pages, send and receive e-mail, and process Java applications, including scaled-down but still fairly feature-rich tools such as word processors and...

...a few capabilities:It must be able to connect to an Internet server provider, display HTML pages on a display (usually a TV set), and interact with the provider to send...

...display problem, though the results should be approximately the same.

One approach is to perform HTML graphics modification at the server so that pages can be viewed (and read) on a...

...the server. Teknema Inc. has designed such a product that will reportedly modify the received HTML code into a form that can be viewed clearly on a television set.

Compare and...to function as intranet terminals. Most feature browsers integrated into the design. In operation, the browser connects to the company's intranet server, displaying the Web pages retrieved from the server...

...also can access the Internet.

The net boxes usually include adequate processing power to run Java applets. As the availability of Java applications becomes more widespread, the net boxes may be able to run Java applications locally, depending on how much RAM the net box is equipped with.

The Process...

...the NC is designed to function as a standalone Internet/intranet terminal, locally processing the HTML code, as well as locally running Java applications received via the net.

Terminals offered by Maxpeed Corp. implement yet another approach. A ...used to connect to the ISP. Users will browse the Web with the Oracle Power Browser, and Java applications will work locally on the Akai device.

A company spokesman estimated that monthly unlimited...

...ROM drive loads the software required for Web access. The Web access disk includes a browser that supports HTML 3.2, RealAudio, Shockwave, GIF animations, and frames. Enhanced chat capabilities also are included. Future updates can be made to Pippin's flash memory. In addition, plug-ins, Java applications, and future enhancements are as easy as obtaining an update disc.

Although its base...

...using PPP. Built around a high-performance RISC processor, the Teknema design uses a proprietary browser and ships with an infrared keyboard and mouse.

- ViewCall ViewCall America Inc. has developed a design that's built around the WEBster browser. Its hardware design, offered to manufacturers that want to create net boxes, is based on...Acorn's net box implements Oracle's NC Client software, and is designed to run Java applications locally. Specific details about the NC product were not available at press time.

- Boundless...

...96). In addition to its functionality as a client, the Boundless NC also performs local Java applet and local browsing capabilities. Audio and telephony capabilities can be added as options.

Now...

...Network Computing Devices Inc. has announced its version of the net box, which consists of Java support added to its Explora and HMX lines of network computers. A software upgrade that adds Java capabilities to existing products was also announced. Pricing of the new terminals and the upgrade...

...750. The basic configuration includes 4 MB RAM, a proprietary operating system that includes a Java virtual machine, an integrated Netscape-compatible browser, a 14-inch monochrome monitor, Ethernet, and one serial and one parallel port. Multimedia capabilities...

...IDE Associates' Internet Client Station also is configured as a thin-client, incorporating a proprietary browser and Java-processing capabilities. The device features VGA output, Ethernet support, and a serial and parallel port...

...other than graphical display and mouse and keyboard updates, its functionality as a terminal displaying browser data on the server positions it as a net box. The basic functionality built into...

...terminal. In this capacity, it can be used to display Internet Explorer, Navigator, or other browser screens, depending on, of course, the browser being run on the server.

Because processing takes place on the server, it's conceivable...

...serial connection, response time was acceptable. Wyse also has announced its plans to build local Java processing into future terminals in order to be compliant with the NC standard.

Winterm may...these tasks.

SIDEBAR:Vendor Notes

Acorn Computer Group plc

Cambridge, England

011-44-1223-725000

www .acorn.co.uk

--

Akai Electric Co.

Tokyo

011-03-3745-9880

www .akai.com

--

Bandai Digital Entertainment Corp.

La Mirada, Calif.

310-404-1600

www .bdec.com

--

Boundless Technologies Inc.

Austin, Texas

512-349-5800

www .boundless.com

--

Diba Inc.

Menlo Park, Calif.

415-482-3300

www .diba.com

--

HDS Network Systems Inc.

King of Prussia, Pa.

610-277-8300

www .hds.com

--

IDEA

Bedford, Mass.

617-275-2800

www .idea.com

--

Magnavox Consumer Electronics

Knoxville, Tenn.

423-521-4316

www .magnavox.com

--

Maxpeed Corp.

Foster City, Calif.

415-345-5447

www .maxpeed.com

--

Navio Communications Inc.

Sunnyvale, Calif.

408-328-0630

www .navio.com

--

Network Computing Devices Inc.

Mountain View, Calif.

415-694-0650

www .ncd.com

--

Santa Cruz Operation Inc.

Santa Cruz, Calif.

408-425-7222

www .sco.com

```
--
Sony Electronics Inc.
Park Ridge, N.J.
201-930-1000
www.sel.sony.com
--
Teknema Inc.
Menlo Park, Calif.
415-833-7910
www.teknema.com
--
ViewCall America Inc.
Norcross, Ga.
770-729-2929
www.viewcallamerica.com
--
WebTV Networks Inc.
Palo Alto, Calif.
415-326-3240
webtv.net
--
Wyse Technology Inc.
San Jose, Calif.
408-473-1200
www.wyse.com
--
Zenith Electronics Corp.
Glenview, Ill.
847-391-7000
www.zenith.com
SIDEBAR:New Life for Old PC's?
A new operating system could be...
```

...Computer Operating System), developed by Santa Cruz, Calif.-based Santa Cruz Operation Inc. A robust browser, mail and news system, and a Java interpreter can be installed on an otherwise obsolete or aging computer for what's expected...

...the Unix version of Netscape Navigator, which is included with the operating system, and supports Java. As Java evolves from a language of applets to a language of applications, the importance of NC...

...computer, optimized for browsing an intranet or the Internet, managing mail and news, and running Java applications.

SCO will offer NC/OS only to OEMs for inclusion into new Intel-based

...

11/8,K/125 (Item 3 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01109468 CMP ACCESSION NUMBER: EET19961104S0114

**Black Sun adds tools to manage VR worlds**

PUBLICATION DATE: 961104

WORD COUNT: 1301

TEXT:

... visitors" to their 3-D worlds in order to trigger appropriate behaviors and to facilitate "chat" and "whiteboards." Users, in turn, need simple VR tools to create their 3-D home...

... and works with a free client plug-in for Netscape's Navigator, utilizing CoolTalk for "chat" and Live 3D for the rendering of VR scenes. Upon signing on, visitors select a 3-D avatar to represent themselves in cyberspace. CyberGate, a multi-user browser, and CyberSockets, an application programmers interface (API), allow Java

and VRML developers to incorporate 3-D browsing into custom applications.  
Constructing and managing the...

...possible by the virtual-reality modeling language (VRML) requires more infrastructure software than 3-D HTML sites. For one thing, visitors to normal 2-D HTML Web sites do not have avatars that interact with each other. In 3-D virtual...

...visitor is represented by a unique 3-D avatar. Interaction among avatars, such as private "chat," needs to be arbitrated by sophisticated server algorithms.

"There are actually four parts to a...

...is installed as an additional VRML-only server that works in parallel with any existing HTML server, but not necessarily on the same physical computer system.

With CyberHub 3-D environments...

...information with any scene in the space.

The API answers to calls from C and Java applications. "We want to be totally standardized on VRML, HTML and Java, so that anybody's 3-D creation tool can be used with CyberHub, as long as it only uses VRML, HTML and Java," said Stuart.

On the user side, ParaGraph International Inc. (Campbell, Calif.) announced that a large...

...of ParaGraph's 3-D VR tools are available from its Web site at:  
<http://www.us.paragraph.com>

People Space permits visitors to adopt a 3-D persona, or avatar...

...used to navigate through a 3-D VR while communicating with other visitors using text "chat" or with handwritten electronic ink.

Links aplenty

...Space Builder, ParaGraph offers Internet 3D Space Builder and Internet 3D Font Magic. at <http://www.paragraph.com>.

The Virtual Home Space Builder provides a basic set of VRML authoring tools...

...plane with a textured "ground" and "sky." (If you have a fast connection and a VRML browser such as Navigator, then try ParaGraph's 3-D logo-world at <http://vrml.paragraph.com>...

11/8,K/126 (Item 4 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01108741 CMP ACCESSION NUMBER: WIN19961101S0001

**Get a Feel for ActiveX - Here's an overview of the powerful set of technologies that's at the heart of all new Microsoft products. (Start)**

PUBLICATION DATE: 961101

WORD COUNT: 1177

... For example, some view ActiveX simply as Microsoft's response to Sun's smash-hit Java language. That's only partially true: ActiveX can work with and in some cases replace Java's functions, but it goes far beyond Java's capabilities. Microsoft itself has added to the confusion by using ActiveX as a public...

...or Windows 96/97). For the full story on Nashville so far, check out <http://www.winmag.com/flanga/ie4.htm>.

For easy access to the Web sites I mention here, visit the HTML version of this page at <http://www.winmag.com/flanga/activex.htm>. All the Web links are there in live and clickable...



...you should have your propaganda filters on full alert, Microsoft's IE3 demo pages ([http:// www .microsoft.com/ie/](http://www.microsoft.com/ie/)) nicely demonstrate many ActiveX features, such as embedded movies, animation and audio...

...spreadsheets, presentations and word processing documents.

Before you discard your propaganda filters, check out [http:// www .microsoft. com/msoffice/office97/preview/preview.htm](http://www.microsoft.com/msoffice/office97/preview/preview.htm), which shows Office 97 in action. Then you...

...ActiveX-enabled Office 97 in this issue.

For more propaganda-free ActiveX information, visit [http:// www .activextra.com](http://www.activextra.com), a site on CMP's TechWeb service that's 100 percent devoted to...

...components of what ActiveX is, how it works and what it means. Go to [http:// www .winmag.com/common/search.htm](http://www.winmag.com/common/search.htm), for example, enter ActiveX in the text field and hit...

...low-cost or free desktop applets) column generated a lively side discussion on ActiveX (and Java ) among knowledgeable, tech-savvy people, independent developers and sophisticated end-users. You'll find a transcript of the Web-based chat session at [http:// www .winmag.com/flanga/gems1.htm](http://www.winmag.com/flanga/gems1.htm). Once on the page, use your browser's Search Current Page or Find capability to search for ActiveX. If your browser doesn't let you search for text within a page, select View/Source or View...

...is likely to be at least as important as-and quite possibly more important than- Java because it delivers essentially all Java offers (you can even run Java inside an ActiveX wrapper) plus tight integration and interoperability with the existing office file standards. That's a powerful benefit, and quite at odds with Java by itself. Although Java 's a capable, powerful tool, it requires you more or less to start at square...

...Director of CMP's Personal Computing Group. Contact Fred via his home page at [http:// www .winmag.com/flanga /hotspots.htm](http://www.winmag.com/flanga/hotspots.htm), in the WINDOWS Magazine areas on America Online and CompuServe...

11/8,K/127 (Item 5 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01100637 CMP ACCESSION NUMBER: IWK19960819S0041

**State Of The Applet - There are still no serious Java business apps**

PUBLICATION DATE: 960819

WORD COUNT: 1447

**State Of The Applet - There are still no serious Java business apps**

TEXT:

Seven months after sun Microsystems released the Java Software Development Kit-and at least one year after Java was proclaimed as one of the hottest technologies of the decade-there still are no serious Java business applications. What we have instead is a Java industry that is bursting at the seams with developer tools. But there are no reliable places to run applets (the name for applications written in Java that are executed in a Web browser ), nor are there enough standards in place to create serious applets for business users.

... database connectivity," says Thomas Murphy, product line manager for Objectshare Inc., who notes that the Java Data Base Connectivity (JDBC) specification won't become a standard until later this year.

"There...

...But a lack of standards isn't the only problem. Most businesses expect

to deploy Java applets by having users download and execute the applets in a Java-capable browser. But developers have found that the most popular Java-capable browser, Netscape's Navigator 2.0, suffers from performance and reliability problems when executing Java applets.

"Navigator 2.0 works fairly well with little applets that animate things on your...

...that are broken." Cadis, whose customers include Hitachi, National Semiconductor, and Phillips, has implemented a Java client for Krakatoa, its client-server content management and search engine. But Cadis has had problems with its client because of difficulties with the Java Virtual Machine currently implemented in browsers such as Navigator 2.0.

"In Navigator 3.0...

...correct operation of the GUI environment, JIT (just in time) compilers, faster download time, persistent Java applets, and caching that works properly," says Pendleton.

Cadis has developed an alternative Web-based front-end using a combination of JavaScript and HTML frames that is faster and more reliable than the Java applet version. For example, downloading a Java applet using Navigator 2.0 takes several minutes over slow (less than 512-Kbps) links...

...because Navigator 2.0 makes a time-consuming connection to the server to download each Java class and then checks to make sure the date and time stamps are correct on the other downloaded classes.

In Navigator 3.0, developers can compress all of the Java classes into a single file to greatly reduce download time for applets. But for now, "the Java front end makes the most sense in an intranet situation where you have a higher...

...Chris Beal, chief technology officer at Cadis. "But we anticipate Netscape and Microsoft will make Java applets download faster."

The new JIT Java compilers, which have been developed by several vendors and are built into Navigator, Microsoft's Internet Explorer 3.0, and several Java Integrated Development Environments (IDEs), will speed up the sluggish execution of applets by translating Java byte codes directly into native machine code. Navigator 2.0 and Sun's Java Development Kit use a slower interpreted method of executing Java applets.

#### Security Limits

Performance wasn't the issue at Ichat Inc., but security limitations and development tools made a difference. Ichat recently released a Java applet version of its chat client, which also comes in Netscape plug-in and ActiveX control versions. All three clients share nearly identical user interfaces, but the Java version has one significant limitation: While the ActiveX control and plug-in versions let users exchange files with each other while chatting, the Java client can't exchange files because of security limitations imposed by the browser execution environment. Java applets running inside of Navigator or Internet Explorer browsers cannot access the local file system...

...time than expected was required to implement certain features. "It's challenging to develop in Java because the development environment isn't as advanced as, say, Microsoft's Visual C++," says...

...have a component piece that lets you do colored text inside a window. For our Java client, we're going to have to write our own class libraries to do that."

Developer tools is where business is booming for Java these days. There are close to 40 Java IDEs available for Windows, Macintosh, OS/2, and Unix platforms, as well as at least...

...tools and many other specialized tools.

A list of these tools is available at [http:// www .cybercom.net/~frog/javaide. html](http://www.cybercom.net/~frog/javaide.html) .

No Programming Needed

Some of the tools require just a bit of programming skill-or...

...0, no programming skills at all. AppletAce lets users select from a pool of customizable Java applets. The AppletAce walks the user through a series of dialog boxes to select the look and feel of the applet.

At the end, the applet and the HTML code needed to execute it are automatically generated for the user. For example, you can...

...and how often you want the applet to update from the text file.

Parts for Java 1.0 is Objectshare's new Java Visual Programming Environment. It doesn't require a lot of programming knowledge to use , and it's also a great way to learn about the structure and limitations of Java classes. Parts for Java lets you lay out Java GUIs with drag-and-drop simplicity and sets up event handlers automatically.

Creating an easy-to-use development package gave Objectshare some insight into Java problems as well. "The Java tools are capable, but performance is still an issue," says Objectshare's Murphy. "There are...

...class libraries still need performance work." The AWT controls the display of GUI elements in Java .

Murphy says quality Java development tools are only now reaching fruition. The result is that end users will be...very long," he says.

Applets For Sale

Still, online "storefronts" ready to start selling serious Java applets are already popping up on the Web. Using the Internet as a delivery and...

...downloads and installs at the same time.

Online stores such as the Cafesoft Store ([http:// www .cafesoft.com/store](http://www.cafesoft.com/store)), Cup O' Joe Java Shop ([http:// www .cupojoe.com/](http://www.cupojoe.com/)), and Gamelan Direct (<http://direct.gamelan.com/>) are open for business. But a...

...tech merchants are sure that will change.

"We're looking at adding 15 to 20 Java -based commercial applications by the end of August, and 75 by the end of the...

...user-productivity applications. "I think it will be a year before we see strong intranet Java applications," she says.

In a marketing experiment, Earthweb is distributing its Java Chat client using a technique it calls transparent distribution. Web sites can host their own chats on Earthweb's chat server ([http:// chat .earthweb.com/](http://chat.earthweb.com/)) by licensing a customized piece of HTML code to put on their Web pages. That code downloads Earthweb's chat client and connects to a private chat for that Web site on Earthweb's chat server. The service is free for now and has more than 8,000 chats running on it, according to Earthweb. After Sept. 30, a subscription to the chat server will cost \$200 per year.

But the growing availability of Java -based products can't disguise the fact that Java development is still in the formative stages. While a year may seem like a long time, it's barely a start in the life of a programming language. Java will really take off once more standards are in place and there's a more stable environment for running Java applets.

That will happen eventually-it just hasn't yet.

--

A Sampling Of Java Products

Company:Objectshare Systems, [http:// www .objectshare.com](http://www.objectshare.com)

Product:Parts for Java 1.0

Availability:Now

--

Company:Macromedia, [http:// www .macromedia.com](http://www.macromedia.com)

Product:AppletAce 1.0  
 Availability:Now  
 --  
 Company:Cadis, http:// www .cadis.com  
 Product:Krakatoa  
 Availability:Now  
 --  
 Company:Dun & Bradstreet Software, http:// www .dbsoftware.com  
 Product:SmartStream Web Series Requisition  
 Availability:Fourth quarter  
 --  
 Company:Ichat, http:// www .ichat.com  
 Product: Java client  
 Availability:Now  
 data:vendors  
 Copyright (c) 1996 CMP Media Inc.

11/8,K/128 (Item 6 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01098791 CMP ACCESSION NUMBER: HPC19960801S0059

**Beyond browsing: Putting 10 Internet suites to the test** (Consumer  
 Lab-You Rate The Products)

PUBLICATION DATE: 960801

WORD COUNT: 2101

... after our tests, the Microsoft Internet Starter Kit, is essentially the company's Internet Explorer browser and an area to practice Web surfing off-line. Finally, we didn't include the...whether you're posting and reading messages in a newsgroup; mingling in an Internet Relay Chat (IRC), which lets you communicate in real time as in a commercial on-line service's chat room; or taking advantage of almost any other Internet service-will be identical, with one major exception: The Hypertext Markup Language (HTML) that Web designers use to create pages changes constantly, and Web browsers don't necessarily...

...the latest dazzling features found on Web pages. The popular Netscape Navigator 2.0 Web browser, for one, lets you view animations, videos, tables of information, or a Web page divided into sections, or "frames," that Net surfers who use another browser may not be able to see. If you want to be able to appreciate Web pages with a full complement of multimedia features, take a browser's full support for tables, frames and the all-important plug-ins-such as RealAudio...

...yet to be announced, a pre-release version of the updated Netscape Navigator 3.0 browser -with features such as enhanced security for monetary transactions-was available for download from Netscape...

...s Internet Explorer- -are building in direct support for such capabilities; and even if a browser doesn't let you use plug-ins directly, it probably will let you add them...

...press time) that will use the same underlying technology, but will substitute a different Web browser and offer some additional pricing options; the full details had not yet been made final at press time.

As of mid-June, GNN had plans to add the Netscape Navigator browser to its suite by July, and you can expect to see Version 3.0 of Internet in a Box, including the Internet Explorer browser, sometime this summer.

In the group of products that can be used with any ISP...

...nosed out Chameleon 5.0 as the testers' choice.

Although Netscape Navigator is the Web browser most Internet surfers use, testers in this group ranked the Netscape Navigator Personal

Edition suite...

...suites they tested. While our panelists appreciated the fact that Netscape Navigator was the only browser to support Java applets (multimedia-rich mini- programs that you download to play on your PC and that...

**11/8,K/129 (Item 7 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01085937 CMP ACCESSION NUMBER: CRN19960401S0099

**BBS OUT OF THE GATE: Wildcat 5 features HTML interface, realtime chat - Mustang, Seeking VARs, Launches Program**

PUBLICATION DATE: 960401

WORD COUNT: 282

**BBS OUT OF THE GATE: Wildcat 5 features HTML interface, realtime chat - Mustang, Seeking VARs, Launches Program**

... system lets them segregate departments or companies.

Version 5 has a new interface based on HTML and soon will include support for VRML, streaming audio and video, and Java . It allows realtime chat and also includes the Wildcat 5 Navigator, a freely distributable browser .

Add-ons include a \$249 Internet Connectivity Package; wcExchange, which lets Exchange handle all E...

**11/8,K/130 (Item 8 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01084317 CMP ACCESSION NUMBER: NTG19960401S0038

**Editor's Choice**

PUBLICATION DATE: 960401

WORD COUNT: 270

TEXT:

... was Navigator 1.0, and when it hit the market it was the best Web browser ever built. Its successor, Navigator 2.0, remains clearly at the head of the field...

Navigator 2.0 has improved both as a browser and as an all-in-one Internet application. Independently scrollable frames, plug-in support for a variety of multimedia and portable document data formats, and support for Java applets are just a few of the enhancements that make the brand new Navigator 2...

...of a good e-mail module and an adequate Usenet reader (along with FTP and Chat ) round out Navigator's functionality , making other Internet applications-well, beside the point.

As a...

**11/8,K/131 (Item 9 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01084316 CMP ACCESSION NUMBER: NTG19960401S0037

**The suite sell of access-Integrated application suites will let you finally take full advantage of the net**

PUBLICATION DATE: 960401

WORD COUNT: 6117

... for dedicated Internet cruisers because standards are beginning to emerge.

This means browsers with full HTML 2.0 compatibility (and most

likely a commitment to support whatever enhancements will take them to HTML 3.0). It means efficient hotlist management through nested folders (or one of a number...

...scroungers who regularly use these tools. The list is long: Some products include Internet Relay Chat, others HTML authoring accessories, a Web server, or data-sharing accessories. And more and more, you'll...

...a-kind features that enhance your Internet experience in often subtle ways. Netscape's newest browser, for example, will scour the Web at intervals, updating your personal bookmarks.  
One thing that...

...managed once you receive them.

Browsers, on the other hand, face a host of challenges. HTML 3.0 is in such a state of flux that, at this writing, the working...

...or Microsoft-inspired features such as moving marquees or fixed backgrounds.

Sun Microsystems Inc.'s Java, too, is almost guaranteed to become part of your browser of the future-as soon as it is implemented in more Web pages and users...

...for your favorite sites or Usenet groups just below the tool bar.

Emissary's Web browser comes with a variety of sites already selected, and it's easy to trace through...

...document or an image from a Web site to use for your own page; the HTML editing tool bar allows you to modify a document without needing to know the ins and outs of HTML.

One problem with Emissary is its inadequate documentation. The online help system is not comprehensive...  
...on how to perform each task.

Attachmate Corp., Palo Alto, Calif.; 800-872-8649; [http:// www](http://www.twg.com/)  
.twg.com/

Internet in a Box 2.0

Internet in a Box 2.0, from...

...handholding as they move out into the databahn's fast lane. Its competent-if unspectacular- browser, Spry Mosaic, bristles with features that beginners will love, such as a hotlist preconfigured with...

...IBox worked fine with our Netcom connection.

Spry Mosaic lags behind in adopting the latest HTML 3.0, Netscape, and Microsoft enhancements: Tables don't array themselves properly, and several proposed HTML graphics enhancements crashed the browser completely. Transparent GIFs weren't see-through, and we had to set up helper applications for the browser to play .wav and .avi multimedia files.

On the other hand, the hotlists, available from...

...quickly and keep you happily cruising for hours.

CompuServe, Columbus, Ohio; 800-557-9614; [http:// www](http://www.compuserve.com/)  
.compuserve.com/

Cyberjack

One of Cyberjack's outstanding attributes is its Guidebook, where you'll...

...organizing your Web sites; you can sort according to type (Web, FTP, Telnet, Internet Relay Chat, for example), or alphabetically. If you change your mind, drag and drop an object to...lets you see who said what, and when.

Cyberjack supports some of the developments in HTML 3.0: backgrounds, text alignment, and tables, but not frames. Although you can

send and...

...setup procedure for a CompuServe account.

Delrina Corp., San Jose, Calif.; 800-268-6082; [http:// www delrina.com/](http://www.delrina.com/)  
SuperHighway Access 2 with CyberSearch  
If your wallet takes a licking while the...

...an optional add-on to SuperHighway Access 2- Frontier's suite that includes the WinTapestry browser, which has built-in gopher, FTP, Telnet, and Mailto capabilities, along with separate newsreader and...  
...for files and Web resources, CyberSearch just by itself makes a lot of sense. The browser uses multiple windows for simultaneous online sessions. Each active window is represented by a button...

...new ones. Installation of the monthly CyberSearch updates is automatic.  
WinTapestry is such a useful browser that you won't miss most of the HTML 3.0 features not supported in this release. It does a good job with tables...

...messages by category, sender, or date.

Frontier Technologies Corp., Mequon, Wis.; 415-241-4555; [http:// www .frontiertech.com/](http://www.frontiertech.com/)  
Mariner 1.0  
What separates Mariner from its competition is its "Intelligent Internet..."

...The mail system lets you send and receive e-mail containing embedded hyperlinks or actual HTML references, organize your mail in folders, and save messages to disk. There's even a...

...NCD's Web site.

Network Computing Devices Inc., Mountain View, Calif.; 415-694-0650 ;  
[http:// www .ncd.com/](http://www.ncd.com/)  
IBM Internet Connection 4.0  
Internet Connection 4.0 has one of the...the configuration to use your own local provider.  
IBM uses the Spyglass Mosaic 2.1 browser, with some modifications to the tool bar and menu selections. For example, you'll find...

...chapters don't apply to this product.

IBM, Armonk, N.Y.; 800-342-6672; [http:// www .ibm.com/](http://www.ibm.com/)  
CyberSuite 1.0  
You won't necessarily find CyberSuite on the shelves of...

...innovative utilities, such as an automated dialer, with more mundane components, like Spyglass' Enhanced Mosaic browser. All are housed inside a tightly integrated shell that beginners will find inviting and easy...

...Although the individual applications don't break much new ground, they keep pace with emerging HTML and other standards. For example, CyberSuite's Mosaic supports up-to-date features like progressive JPEG

display and such HTML 3.0 items as backgrounds and tables. The browser also supports .au and .aiff sounds, and helper applications like RealAudio Player and Adobe Acrobat...

...Further, most versions sold to original equipment manufacturers will include encryption, and Ipswitch has promised Java and .wav audio support as standards for these enhancements are firmed up.

The Mail client...

...matchup of components with few real weaknesses.

Ipswitch Inc., Lexington, Mass.; 617-676-5700; [http:// www](http://www)

.ipswitch.com/

Microsoft Internet Explorer 2.0

Microsoft Internet Explorer 2.0's tight integration with Windows 95 , trail-blazing exploitation of new HTML features, and bargain price (essentially, it's free for the downloading) make this package a chief rival to mighty Netscape Navigator in the browser -plus wars. The early 1996 introduction of Windows 3.1 and Macintosh versions add the...a right-mouse button.

Right click on a Web page and you can view the HTML source code, create a Shortcut, or add it to your hotlist. Right-click on a...

...Explorer includes FTP, News, and Mail features, most of its strengths are in the sophisticated browser .

Multithreading allows multiple connections to a single server to speed downloads, and you can scroll...

...all-in-one search engine page is right on the tool bar.

Explorer supports many HTML 3.0 and Netscape extensions, such as tables and centered or aligned text and graphics...

...Microsoft's own enhancements, like backgrounds that remain stationary while you scroll through text.

The browser can display eye-catching scrolling marquees and play inline .avi video and background sound files...

...have the Windows 95-specific features of this version, they should help promote the Microsoft browser as a serious multiplatform alternative to Netscape Navigator.

Microsoft, Redmond, Wash.; 206-635-7122; [http:// www .microsoft.com/](http://www.microsoft.com/)

Internet Chameleon 4.6

Internet Chameleon is like one of those precision tool...

...IP utilities and applications.

Among the tools you'll certainly use is Chameleon's WebSurfer browser , notable chiefly for its excellent hotlists. Many of the functions folded into some other browsers...

...container, however, you can add any of these other applications, such as NEWTNews, to the browser 's Tools menu, and use them as if they were part of WebSurfer.

Applications in the suite include gopher, FTP, and Usenet news clients, Internet Relay Chat , viewers/players for sounds, image files , and TrueSpeech and RealAudio files. Archie, Finger, Ping, and Whois utilities also are included, along with personal Web and FTP servers and an HTML page editor. NetManage's collection is so eclectic it even provides a TWAIN-compatible scanner...

...and offered to e-mail it for us with no additional setup.

WebSurfer offers partial HTML 3.0 support, doing a good job on tables, but it falls down in other...

...by the time you read this.) You won't buy this \$400 package for the browser , though. The steep tariff becomes cost-effective only if you need some of its advanced...

...files in it to your PC just by copying the folder.

WebSpider is a WYSIWYG HTML editor that creates pages you then can publish using the package's Personal Web Server...

...Chameleon is an impressive set of tools.

NetManage Inc., Cupertino, Calif.; 408-973-7171; [http:// www .netmanage.com/](http://www.netmanage.com/)

Netscape Navigator 2.0

One of the reasons Netscape Navigator is so hard...multiple attachments are encoded and decoded on the fly.



Not satisfied to wait for the HTML 3.0 standard to solidify, Netscape has released a relentless torrent of improvements, most of...

...a target window. Of course, Navigator's Windows 95 and NT versions include support for Java, with built-in JavaScript (which you can turn off if you're not eager to have these miniapplets appearing in your browser)

An upgraded Gold edition of Navigator has all these features plus a built-in WYSIWYG HTML editor that can create new pages from scratch or modify downloaded pages with drag-and...

...of the market. Trailblazing innovations like those in Navigator 2.0 make this leading-edge browser a favorite to grab even more users.

Netscape, Mountain View, Calif.; 415-528-3777; [http:// www .netscape.com/](http://www.netscape.com/)

Quarterdeck InternetSuite 2.0

Quarterdeck Corp.'s InternetSuite is filled with goodies. From...

...Oddly, with so many great features, Quarterdeck neglected the ability to view message threads.

The browser lets you view Web pages simultaneously with their HTML source, using a horizontally split screen. It also has one of the nicest folder arrangements...

...view folders as text and/or icons, and you can drag an icon from the browser -the most intuitive of all the browsers we looked at-to the folder to add...

...the most fun to use.

Quarterdeck Corp., Marina Del Rey, Calif.; 310-309-3700; [http:// www .quarterdeck.com/](http://www.quarterdeck.com/)

Spyglass Mosaic 2.1

An exception to the basic game plan for this roundup of browser suites, Spyglass Mosaic 2.1 has no mail module or Usenet reader; it's a browser, pure and simple. But it is also far and away the most widely used original equipment manufacturer browser product on the market. In fact, you can't buy Spyglass Mosaic, as such, but it constitutes-in various customized guises-the browser component of several of the suites we review here.

One strength of Mosaic 2.1...in mind when considering an Internet suite.

Spyglass Inc., Naperville, Ill.; 708-505-1010; [http:// www .spyglass.com/](http://www.spyglass.com/)

**11/8,K/132 (Item 10 from file: 647)**

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01076439 CMP ACCESSION NUMBER: CWK19951211S0060

**Web Sites Get Interactive-Start-up readies software development tool for building customer-service sites**

PUBLICATION DATE: 951211

WORD COUNT: 482

... editor for creating and editing Web pages on the fly.

Backstage will work with any browser on the market and will scale to take advantage of the latest features of browsers, such as chat and real-time interactivity available in HTML 3.0, according to the company.

Company co-founder and CEO Anthony Wood said the...

...the library of pre-existing objects for moderated or unmoderated groups.

Simple objects, such as browser plug-ins and configuration files, are updated monthly and downloadable free from iband's Web...

...features, such as support for tables in Microsoft Corp.'s Internet Explorer 2.0 or Java plug-ins for Netscape 2.0, will be updated every three months.

Iband said it...

...first quarter of 1996, iband will provide Unix versions.

Iband can be reached at [http:// www . iband.com](http://www.iband.com) or 408-374-4086.

11/8,K/133 (Item 11 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01065035 CMP ACCESSION NUMBER: CWK19950918S0003

**Netscape Readies IP App Platform**

PUBLICATION DATE: 950918

WORD COUNT: 943

The leading provider of World Wide Web browser software will begin shipping a new version of its Navigator client, as well as Web- development tools based on Sun Microsystems Inc.'s Java object- oriented programming language, in December.

These will prove to be key assets for developers...

...need to launch a helper application for each new format.

Unix-based Mail Client

The browser also includes a Unix-based mail client that lets users send electronic mail securely by...

...does support the Simple Mail Transfer Protocol and POP3 standards. Release 2.0 also supports chat and the ability to send and receive files via file transfer protocol.

Perhaps even more...

...Mountain View, Calif.-based Netscape is introducing a new scripting language, which is based on Java but doesn't require programming expertise.

"Netscape Scripting Language is designed to allow power users...

...the client and the server."

Netscape's scripting language is a subset of Sun's Java , and does not let users create new classes of objects. Instead, the browser comes with its own object library.

A separate product, Netscape Navigator Gold 2.0, includes...

...bar that remains in place when moving to the next page.

"Netscape has turned the browser into a universal application-distribution mechanism," said Geoff Baehr, chief network officer at Sun, Mountain View, Calif.

Java technology lets users distribute program functions along with content, since it can include code that...

...or check to see if there is enough disk space to download video. And because Java is platform independent, developers need to write the programs only once.

Another bonus with Java is that it includes several layers of security, which prevents software that is downloaded to a user machine from infecting the system with a virus. Java applets can include digital signatures, letting corporations restrict usage.

Meanwhile, Netscape also aims to give...

...to different servers and the links will reconnect automatically.

LiveWire includes extensions for forms processing, HTML on the fly and interfacing with legacy applications. "Server extensions allow you to publish HTML pages to a Web server and compile the scripting- language programs so they run anywhere...

...Y.-based electronic publisher.

"My problem has been that not everyone has a Netscape compatible browser , and we're trying to publish a general-interest publication with users coming in from...

...On-Line) and CompuServe," White said.

The Navigator 2.0 evaluation is available at [http:// www .net-scape.com](http://www.netscape.com) and will be \$49. The beta version of Navigator Gold 2.0...

11/8,K/134 (Item 12 from file: 647)

DIALOG(R)File 647:(c) 2000 CMP. All rts. reserv.

01053769 CMP ACCESSION NUMBER: IAA19950522S0002

**Rating the fastest browsers - For pure speed, it's NCSA Mosaic**

PUBLICATION DATE: 950522

WORD COUNT: 1645

TEXT:

new york - Every browser claims it is the fastest on the planet. What's the truth?

... best all around, though not necessarily the fastest in every specific application. The online service browser from CompuServe and Prodigy were both good, but not up to the level of the...

...specifics:

Netscape Navigator 1.1

Netscape Communications Corp.'s Netscape is the most widely used browser on the Web, and for good reason. This browser 's speed and performance were among the best of those we tested, displaying text before ...

...for this - is in the extensions it has written. Early support for HyperText Markup Language ( HTML ) 3.0 capabilities such as tables, backgrounds and animation makes Netscape the browser of choice for users wanting to experience the cutting edge of Web page design.

That...

...Portable Document Format (PDF), Virtual Reality Modeling Language (VRML), and Sun Microsystems Inc.'s Hot Java - tightly with its own browser .

The browser also integrates support for accessing newsgroups and sending e-mail, and simplifies the process of...

...real- world usability. Netscape is free for evaluation; \$39 for license.

See Netscape at [http:// www .netscape.com](http://www.netscape.com).

Rating: Five stars

NCSA Mosaic 2.0 Beta 4

The original Mosaic browser is still in many ways the best - at least when it comes to speed. Persistent...

...list manager.

The interface is busier than Netscape, but still intuitive. Mosaic also supports some HTML 3.0 extensions, most notably tables, as well as a variety of helper applications.

The...

...Supercomputing Applications, still is essentially free for individual (non-commercial) use.

See NCSA at [http:// www .ncsa.uiuc.edu/SDG/Software/Mosaic/](http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/)

NCSAMosaicHome. html .

Rating: Five stars

Spyglass Enhanced Mosaic 2.0

Spyglass Inc. is the company that has...

...top tier, but it handles text and graphics well and allows for quick

navigation. The browser has a clean interface and a passable bookmark system.

On the electronic commerce side, the...

...Terisa Systems Inc.'s S-HTTP/SSL protocol will be added shortly.

Key to the browser's functionality is a software development interface - the browser industry's first - that lets others write third-party applications that work in conjunction with the browser. Enhanced Mosaic includes built-in support for sound files, plus separate GIF and JPEG graphic viewers. Price varies depending on reseller.

See Spyglass at <http://www.spyglass.com>.

Rating: Four stars

CompuServe/Spry Air Mosaic

Because CompuServe offers a dial-up Point to Point Protocol (PPP) connection to the Internet, customers can use any browser they like. The online service's NetLauncher, however, does come packaged with the Air Mosaic browser from Spry Inc.

Air Mosaic scored very similarly to Enhanced Mosaic in speed and navigation. The browser has a simpler, less cluttered interface than other browsers tested, but like the others includes integrated newsgroup and e-mail functions.

Although the core Air Mosaic browser is offered by Spry in a variety of packages, we tested a new version that...

...0 package. This new version includes the first client implementation of S-HTTP, enabling the browser to conduct secure transactions with servers running S-HTTP. (The browser is likely to eventually support SSL, as well, since CompuServe now is a Terisa investor...

...a simplified method for establishing an Internet account through CompuServe.

If you want the AirMosaic browser only, use Co-puServe's NetLauncher (free for CompuServe users) or Spry's AirMosaic (\$39)

See Spry at <http://www.spry.com>.

Rating: Four stars

Prodigy

Prodigy may get some heat for bringing waves of newbies onto the Net, but the latest version of its Web browser is by all measures a success. It is probably the easiest browser to use and set up - simply install Prodigy and you've done it; no need to worry about TCP/IP stacks or SLIP/PPP connections.

And the browser, itself, scores as high as Enhanced Mosaic or AirMosaic in speed and navigation. Like the ...full connection to the Internet, users are limited to the Net tools Prodigy provides. The browser is free with a Prodigy account.

See Prodigy at <http://www.astranet.com>.

Rating: Three and a half stars

Pipeline USA

Pipeline began in New York...

...a standard phone connection - no TCP/IP stack or PPP/SLIP connection is required. The browser itself is serviceable - fairly fast but somewhat finicky in its navigation. A common problem we...

...was clicking on a hot-link and not getting sufficient feedback to know if the browser was responding.

On the plus side, the browser includes a good bookmark with lots of Web hot spots preloaded. It also can download...

...flat monthly fee of \$19.95, with no limits on usage.

See PSI at <http://www.psi.com>.

Rating: Three stars

Netcom Netcruiser

This is an all-in-one package of...

...installation, breadth of applications (including e-mail, newsgroups, Gopher, FTP, Telnet and even Internet Relay Chat ) and price (\$19.95 for 40 hours of prime-time Internet use, plus free off-hour usage), the browser , itself, is a generation behind.

It does not allow users to scroll down or hot...

...of Netcom, version 1.6, includes a WinSock interface, which allows users to run any browser - or should we say, a better browser - over the connection. Software is free with Netcom Internet access account.

See Netcom at [http:// www .netcom.com](http://www.netcom.com).

Rating: Two stars

WinWeb

This freeware browser from the Microelectronics & Computer Technology Corp.'s Enterprise Integration Technology group also is a generation...

...build electronic-commerce applications. WinWeb has lots of room for improvement.

See EINet at [http:// www .einet.net](http://www.einet.net).

Rating: Two stars

Browsers of note not tested

Quarterdeck Office Systems Inc. this month is releasing the final beta build of its Quarterdeck Mosaic browser . The product includes an easy-to-use folder system for hot-lists/history that represents a great improvement over anything out there today. The final version of the browser will ship next month. America Online's new browser is in public beta right now, and by most accounts is off to a slow start. AOL Web newsgroups are awash with accounts of problems, from browser crashes to the inability to reach common URLs. We had the same problems in testing...

...also later this year will ship a new product called WebShark, which integrates a Web browser with other applications under a single interface.

11/8,K/135 (Item 1 from file: 674)

DIALOG(R)File 674:(c) 1999 IDG COMMUNICATIONS. All rts. reserv.

056545

#### Brain Power

Corporate training departments are discovering how to use te intranet to distribute some smarts, quickly and on the cheap.

Publication Date: December 16, 1996

Word Count: 3380 Line Count: 303

Caption(s): Photo, Jerry Neece, Dale Coyner, Susan Hennigh, Ian Day, Wendy Szeto-Lee, Jay Moss, Jacqueline Jones, Gary Laws and Ron Williams

#### Text:

... the instructional designer and content expert on the team, which also comprised a writer with HTML experience, a graphic designer and a systems designer who happened to be, not coincidentally, a...next quarter. He expects the training programs to include text, graphics, short audio clips and Java -based animations and to incorporate testing.

"We'd construct the training program, as much as...

... s groupware products, the continuous learning site is actually a hybrid application that's part HTML and part Notes. "There are some things we simply can't do in Notes that we farm out to the Web," Coyner says.

For example, the company uses browser plug-ins such as Real Audio and Live Chat , a real-time, text-based conferencing program. But supplemental text, audio and graphics files will...

... 95 operating system, with Notes 4.0 and Netscape Communications Corp.'s Navigator 2.0 browser .

"It's helped a lot to know exactly what users have on their desktops, but...audio content as well, he adds.

Without video at their disposal, producers might rely on Java applets to liven things up a bit, Moss says. An animation sequence, for instance, could...

...s California sites.

For employees who come into the site via a Navigator 3.0 browser, the team uses JavaScript to deliver feedback on the answers they've given to the...

... CGI scripts are used to handle the interplay for users with lesser versions of the browser, Graham says.

Not surprisingly, Sun also plans on using Java to deliver customized training pages. The training development team takes information gathered during the online...

...see the August issue of IntraNet, page 31.)

"All I send across the network is HTML. The rich media types are served locally," Neece explains. "In training, latency is important. You... the instructional designer and content expert on the team, which also comprised a writer with HTML experience, a graphic designer and a systems designer who happened to be, not coincidentally, a..."

11/8,K/136 (Item 2 from file: 674)

DIALOG(R)File 674:(c) 1999 IDG COMMUNICATIONS. All rts. reserv.

053184

**Exploring the great treasures found in Gibbs' goody bag**

**Backspin**

**Anyone who is innocent of the 'Net's corrupting influence, but knows what**

**Nintendo is, won't be impressed by the Web.**

Publication Date: July 15, 1996

Word Count: 619 Line Count: 54

Section Heading: Opinions

Text:

... said, we've seen some really great sites emerge. It was the likes of Razorfish ( www .razorfish.com), Ragu ( www .eat.com) and Clement Mok Designs ( www .cmdesigns.com) that showed us that strong visual designs and information architectures for the Web could be created. Today, the Web design leaders include Elektra Records ( www .elektra.com) and Suck ( www .suck.com). Unfortunately, Web content developers usually don't have the background to create such...

... appearing over the past few months. For example, I've just started evaluating Caligari's ( www .caligari.com) Pioneer Pro. Wow! This is one awesome product. But make no mistake, you...

... 32M-byte RAM, 100-MHz 486 processors in the Refrigerator (my multiboard rack system from ChatCom, Inc. - www .jlchatcom.com). Pioneer Pro is much more rigorous in its parsing of VRML files, so...

... site and populate it with a number of services. I must confess that my site, www . gibbs.com, has nothing but pointers to business partners' sites at present - you know the...

... shod. But I digress. Finally, and far too briefly, I must mention BlackSun Interactive's ( www .blacksun.com) Cybergate product. This is a VRML browser with multiuser support. (They also have a kind of Netscape plug-in, but it doesn't run inside a browser document as a plug-in usually does.) Cybergate allows you to meet other people in VRML worlds, exchange virtual business cards and chat via text. So that's what's gotten me excited over the past couple of...